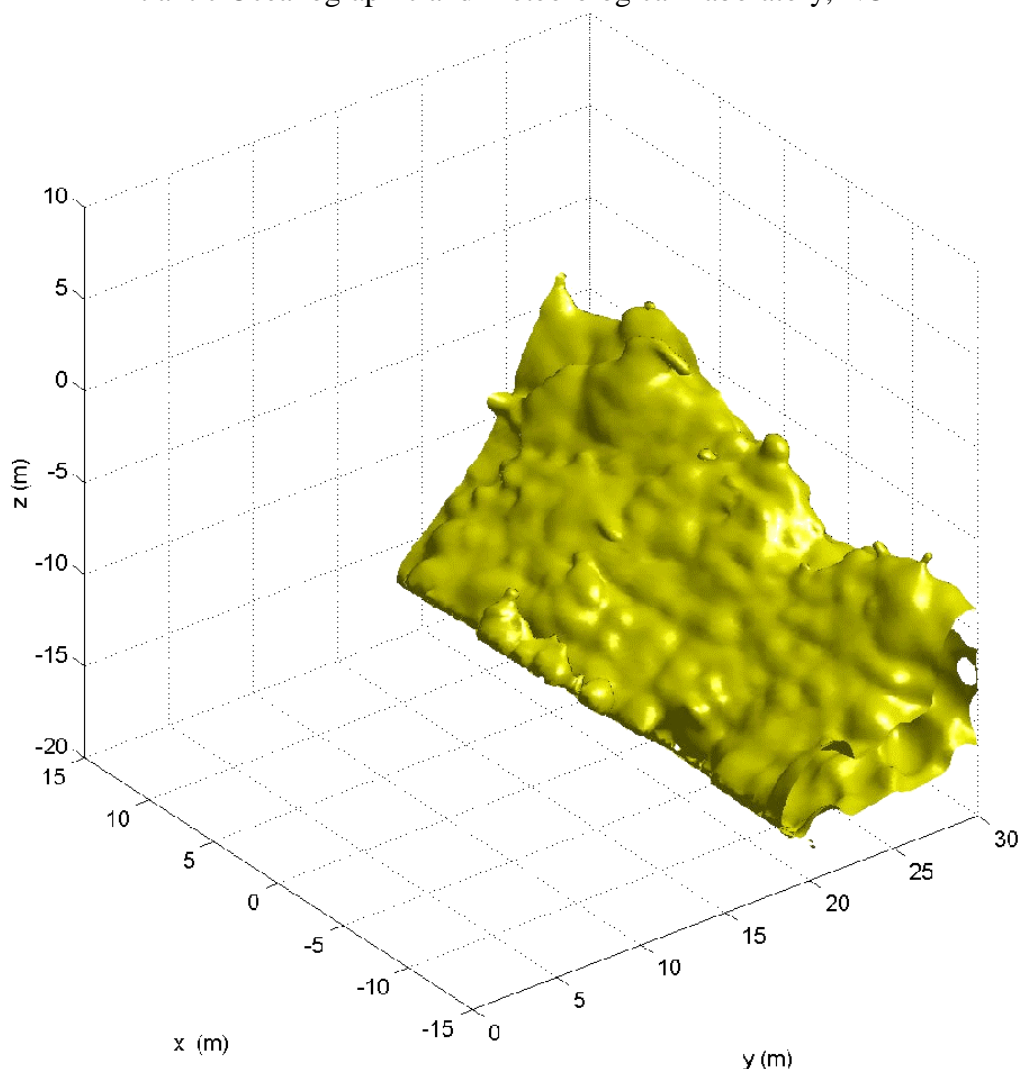


Cruise Report
VIP (Vent Imaging Pacific) 2000 Cruise

R/V THOMPSON, 21-31 July 2000
Main Endeavour Field, Endeavour Segment,
Juan de Fuca Ridge

Institute of Marine and Coastal Sciences, Rutgers University
Applied Physics Laboratory, University of Washington
Deep Sea Research Department, Japan Marine Science and Technology Center (JAMSTEC)
Atlantic Oceanographic and Meteorological Laboratory, NOAA



Grotto Vent Complex from West Wall of Rift Valley
Seafloor Acoustic Imaging Run

PRELIMINARY CRUISE REPORT

SHIP NAME: R/V Thomas G. Thompson, Cruise 114
OPERATING INSTITUTION: University of Washington
DATES: 21-31 July 2000
PROJECT TITLE: VIP (Vent Imaging Pacific) 2000 Cruise
CO-CHIEF SCIENTISTS: Dr. Peter A. Rona
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CLEARANCE COUNTRIES: Canada
FOREIGN PARTICIPANTS: Mr. Kevin Conley, Fisheries and Oceans Canada
Mr. Antoine Page, GEOTOP-UQAM, University of
Montreal at Quebec, Canada
Mr. Kyohiko Mitsuzawa, Japan Marine Technology
Center (JAMSTEC), Japan
Mr. Kentaro Shiraishi, Marine Works Japan, Japan
Mr. Ravi Gudlavalleti, Rutgers University, India
Mr. Shashank Sathyanarayana, Rutgers University,
India

PORT CALLS: Seattle to Seattle
DATA OBSERVATIONS AND SAMPLES COLLECTED:
Jason Operations Report-included in this report
Event log- included in this report
R/V Thompson CTD Report-included in this report
SM 2000 Acoustic data: APL-UW and Rutgers
Video and photos from Jason dives: copies of video at APL-
UW, copies of photos at Rutgers; originals of both
archived at Woods Hole Oceanographic Institution
Biological samples- custodian Dr. Kim Juniper
University of Quebec at Montreal

SCHEDULE OF DELIVERY FOR ALL DATA RESULTS AND REPORTS:
Cruise Report attached

CRUISE REPORT

VIP (Vent Imaging Pacific) 2000 Cruise

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VIP (VENT IMAGING PACIFIC) 2000 CRUISE SUMMARY

The objective of the VIP (Vent Imaging Pacific) 2000 cruise (R/V Thompson Cruise 114; 21-31 July 2000 port-to-port Seattle) was to acoustically image hydrothermal flow regimes in the Main Endeavour Field centered at 47° 56.0'N, 129°05.5'W on the Endeavour segment of the Juan de Fuca Ridge (Figure 1, track chart; Delaney et al., 1992). The acoustic imaging was done in coordination with *in situ* monitoring and measuring of these flow regimes by other cruises as part of the NSF RIDGE Program Observatory Experiments at that site. The purpose of the acoustic imaging is to determine the behavior of these flow regimes as the principal agents of dispersal of heat and chemicals from the lithosphere to the hydrosphere in quantities that impact the ocean environment, support chemosynthetic ecosystems, concentrate metallic mineral deposits, and play a role in dispersal of vent biota. The acoustic imaging and visualization of plumes discharging from black smoker-type vents and diffuse flow discharging from large areas of the seafloor in hydrothermal fields utilizes innovative new methods developed by the research partnership which carried out this cruise. The research partnership comprises the Institute of Marine and Coastal Sciences (Rutgers University), the Applied Physics Laboratory (University of Washington), the Japan Marine Science and Technology Center (JAMSTEC), and the Atlantic Oceanographic and Meteorological Laboratory (NOAA).

The plume imaging is based on acoustic volume backscatter from particulate matter suspended in the black smoker plumes (metallic mineral particles of the "black smoke"; Palmer et al., 1986; Rona et al., 1992). The imaging of diffuse flow is based on acoustic scintillation which senses this form of discharge by recording the distortion of an acoustic pulse by sound speed variations related to water temperature fluctuations as the pulse is reflected through a lens of warm water (Rona et al., 1996). The measurement of fluid flow rates is based on coherent Doppler measurements (Jackson et al., 2000).

We employed a modified state-of-the-art sonar system (Simrad SM 2000 system) for the acoustic imaging mounted on ROV Jason by the Deep Submergence Group of Woods Hole Oceanographic Institution. Modification comprised addition of a mechanical rotator and related software to scan plumes. Cruise operations and Jason dive summaries are presented in this Cruise Report under, "Jason Operations". The acoustic imaging work was accomplished on two dives of ROV Jason, one dive of short (Dive JAS-282; 07/23/00; 17 hours) and one of long duration (Dive JAS-283; 07/24-28/00; 112 hours). Dive JAS-283 established a new record for the duration of an ROV Jason deployment. A third dive was aborted (Dive JAS-284) to change a malfunctioning temperature sensor. The fourth and final dive (Dive JAS-285) was devoted to *in situ* measurement of temperature and flow rate at selected black smoker-type vents and areas of diffuse flow, and moderate sampling of biota on active chimneys.

We performed 4 types of acoustic experiments on hydrothermal flow regimes in the Main Endeavour Field, as follows:

- 1) Panoramic imaging (range 10 to 150 m) of 4 vent clusters each tens of meters wide and high (Peanut-Puffer-Bastille group; Salut, S & M and Grotto sites): The panoramic imaging shows seafloor features, plumes (based on acoustic backscatter from suspended particulate matter), and diffuse flow (based on acoustic scintillation thermometry). The images reveal differences between the 4 vent clusters in intensity of venting and partitioning between black

smoker plumes and diffuse flow.

- 2) Time series of panoramic images: The time series (hourly during 24 hour period at Grotto vent site) shows the effect of a mixed semi-diurnal tide on intensely venting plumes and diffuse flow.
- 3) Flow rates: Flow rates were measured in black smoker plumes (Grotto vent site) using the coherent Doppler method.
- 4) Diffuse flow: Acoustic scintillation mapping of diffuse flow was conducted to test stationary and moving modes (multiple sites).

In addition to the acoustic experiments, we ran several high-resolution bathymetric lines to fill gaps in a bathymetric survey of the Main Endeavour Field initiated on a prior leg and recorded two CTD-transmissometer profiles in the study area.

Preliminary cruise results are scheduled for presentation at the Fall Annual Meeting of the American Geophysical Union, 15-19 December 2000 in San Francisco (Rona, et al., 2000; Jackson et al., 2000; Bemis et al., 2000).

The research team acknowledges with appreciation funding support from the National Science Foundation (Grant NSF OCE 98-18841 to IMCS/Rutgers and APL/UW), from JAMSTEC, and from AOML/NOAA. We thank the ROV Jason team of the Deep Submergence Group at the Woods Hole Oceanographic Institution for outstanding performance at sea and the Marine Operations Group and the Captain and crew of the R/V Thompson of the University of Washington for their strong support.

References:

- Bemis, K.G., Rona, P.A., Jackson, D. R., Jones, C., Palmer, D., Silver, D., and Gudlavalletti, R., Multi-scale time-dependent behavior of hydrothermal plumes at Grotto vent, Main Endeavour Field, Endeavour Segment, Juan de Fuca Ridge: A time series of acoustic images (abstract), *EOS, Trans. Am. Geophys. Un.*, 81, in press.
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- Jackson, D. R., Jones, C., Rona, P.A., and Bemis, K.G., 2000, Doppler measurement of black smoker flow velocity (abstract), *EOS, Trans. Am. Geophys. Un.*, 81: in press.
- Palmer, D.R., Rona, P.A., and Mottl, M.J., 1986, Acoustic imaging of high-temperature hydrothermal plumes at seafloor spreading centers, *J. Acoust. Soc. Am.*, 80(3):888-898.
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- Rona, P.A., Palmer, D.R., Jones, C., Chayes, D.A., Czarnecki, M., Carey, E.W., and Guerrero, J.C., 1992, Acoustic imaging of hydrothermal plumes, East Pacific Rise 21°N, 109°W, *Geophys. Res. Lett.*, 18:57-61.
- Rona, P.A., Jackson, D.R., Wen, T., Jones, C., Mitsuzawa, K., Bemis, K.G., and J.G. Dworski., 1997, Acoustic mapping of diffuse flow at a seafloor hydrothermal site: Monolith Vent, Juan de Fuca Ridge, *Geophys. Res. Lett.*, 24:2351-2354.

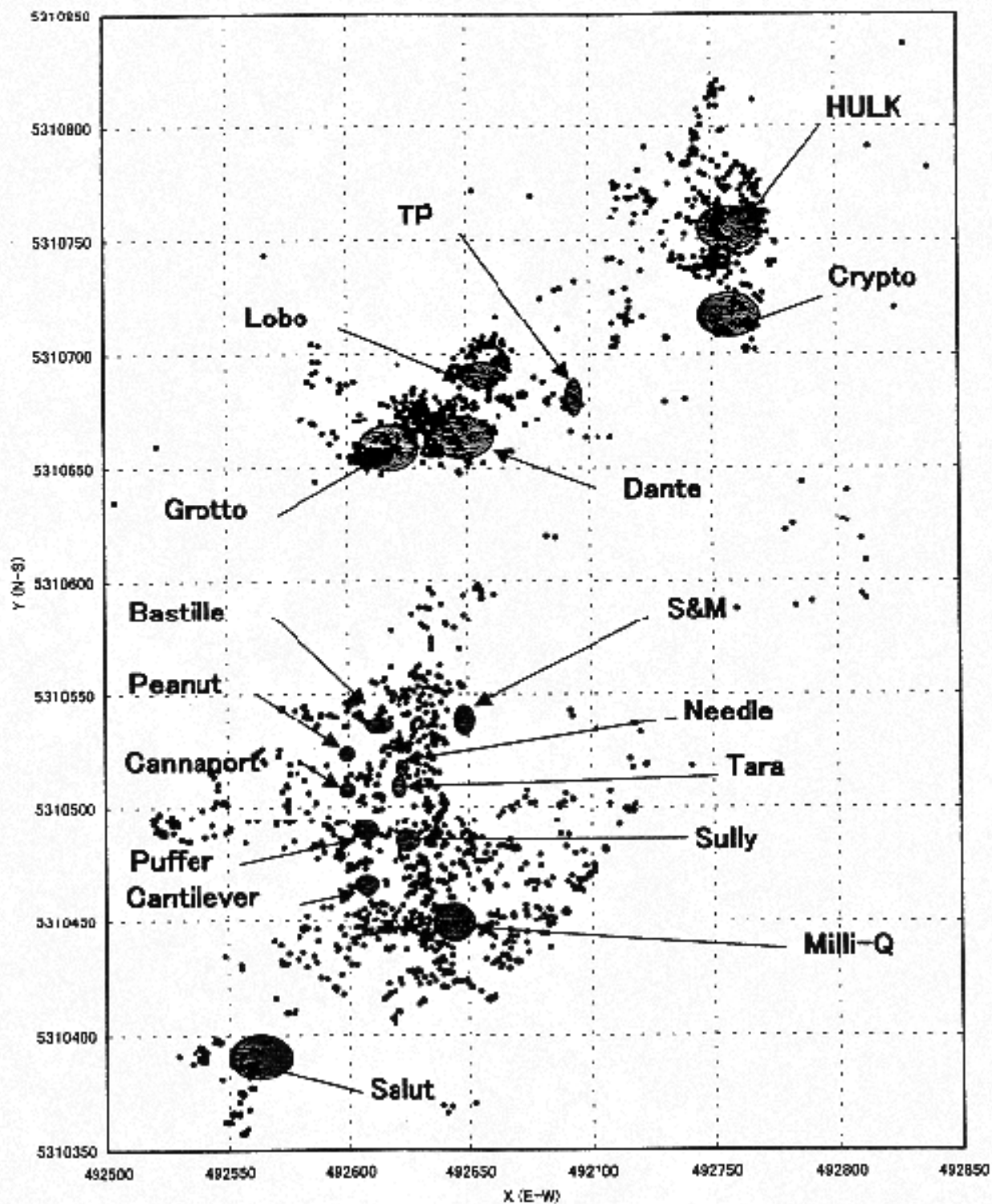


Figure 1. Track chart showing names pointing to locations of hydrothermal vents (shaded areas) and positions of ROV Jason (dots) during acoustic imaging runs (black dots) in the Main Endeavour Field, Endeavour segment, Juan de Fuca Ridge. Chart coordinates are in meters north and east of a Universal Transverse Mercator (UTM) origin for UTM zone 9.

JASON Operations

Table of Contents

<u>Sheet/Tab Id</u>	<u>Description/Contents</u>	<u>Completed</u>
Personnel	Cruise Personnel Information	no
Hosts	Computer Information/IP Addresses	yes
Media Calculations	Media and Costs Estimates for Ops	yes
Lowerings	Cruise, Operation and Lowering Summaries	yes
Watch Bill	Watch Assignments for JASON Ops	yes
Serial Ports	Serial Port Assignments for JASON Ops	yes
Video Router	Video Router Assignments	yes
Film Logs	35mm Film Logs	??????
Hi8 Video Hand	Hi8 Video Tape List - Hand Entry Form	yes
Hi8 Video Digital	Hi8 Video Tape List - Digital Format	yes
JAS-282/283 Configs	JASON Vehicle Configs - JAS-282/283	yes
JAS-285 Configs	JASON Vehicle Configs - JAS-265	yes
Archives Data List	List of Data sent to WHOI Archives	no

Cruise Personnel

Name	Affiliation	E-mail	Comments
Martin Bowen	WHOI/DSL	mbowen@whoi.edu	
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Cdt. Maureen Majweski	Coast Guard		
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Kentaro Vhiraishi	JAMSTEC	shiraishi@mwj.co.jp	
Mike Realander	UW		ship tech
Bill Martin	UW		ship tech

DSL/DSOG Hosts

IP Address	Name	System Type	Description/Function/Use
198.17.154.1	WHOI Router	Cisco	Router to ship's network
198.48.81.202	jasonr		Link On THOMPSON to WHOI router
198.48.81.17	indian		THOMPSON mail server
198.17.154.104	carteret	MICRON PC	mosaicer
198.17.154.105	seadog	SUN SPARC 10	esc-data processor
198.17.154.106	salty	SUN SPARC 10	esc-data processor
198.17.154.107	midrats	SUN Ultra SPARC 2170	sonar post processor
198.17.154.108	dsltest	PC Laptop	tom crook's laptop
198.17.154.109	sonarplot	HP Deskjet 1600 CM	Printer
198.17.154.110	largeplot	HP 755CM	Plotter
198.17.154.112	dsladmin	HP Vectra VE	general purpose NT
198.17.154.113	cabot	TriStar PC	General Use, Backup Mosaicer
198.17.154.120	sivalik	PC Laptop	Hanu's Laptop
198.17.154.121	vindhya	PC Laptop	Hanu's Laptop
198.17.154.122	varun	SGI - O2	Hanu's SGI
198.17.154.123	saxatilis	H&H PC	Dana's
198.17.154.124	gjoa	GATEWAY 2000 PC	Louis Whitcomb's
198.17.154.125	dolphin	MICRON PC	Louis Whitcomb's
198.17.154.126	mindell	Dave Mindell	Dave Mindell
198.17.154.127	hardrada	DELL Latitude LT Laptop	Jon Howland's Laptop
198.17.154.128	anson	COMPAQ PC - linux	esc-data processor (development)
198.17.154.129	hudson	COMPAQ PC - linux	esc-data processor (development)
198.17.154.130	galen	Laptop PC	Martin Bowen
198.17.154.131	matt	PC Laptop	Laptop
198.17.154.132	padi	PC	archeo1
198.17.154.133	sidqia	PC	archeo2
198.17.154.134	sillibel	PC	archeo3
198.17.154.135	conservation	MAC	Dennis Piechota
198.17.154.136	aeson	MAC	Andy Bowen's
198.17.154.137	sm2000	PC - NT	SM2000 Logging Machine
198.17.154.190	dsgrov1	DELL Latitude Laptop - linux	Mail Server
198.17.154.201	dlog1	COMPAQ PC	Primary Data Logger
198.17.154.202	dlog2	COMPAQ PC	Secondary Data Logger
198.17.154.203	pilot	PC	Pilot CPU
198.17.154.205	fletcher	SUN Ultra SPARC 2170	Real Time Sonar Collection
198.17.154.206	dtime	COMPAQ PC	Real Time Time Server
198.17.154.210	freezeframe	Real Frame Grabber	Real Frame Grabber
198.17.154.211	exact	PC	Exact Processor
198.17.154.212	blowfish	PC	Dana's New LBL Nav System

Media Calculations
Rona/THOMPSON/2000 - JASON - 8 Days JASON Ops

	Data Logging	Backups	ESC	Sonar	Copies/ Distribution	Misc	Total	Cost/Media	Cost
8mm Exabyte	0	0	0	0	0	0	0	9.51	0.00
DAT Tapes	0	0	0	0	0		0	9.30	0.00
Video Tapes (Hi8)	336	0	0	0	0	0	336	8.84	2970.24
EPC Paper	0			0			0	42.25	0.00
JAZZ Disks	0					0	0	80.00	0.00
Raytheon Paper	0		0	0		0	0	65.00	0.00
# of Data days	8		#of Tapes/Day	1				Cruise Budget	2970.24
# of Sonar Days	0		#of Tapes/Day	18	#of	0			
					EPC/Day				
# of ESC Days	0		#of Tapes/Day	6	#of Ray/Day	0		Post Cruise	0.00
# of Video Days	8		#of Tapes/Day	52				SubTotal	2970.24
# of Sonar Copies	0							Film+Developin g	820.00
# of ESC Copies	0							Paper + Pens	750.00
# of Data Copies	0							TOTAL	4540.24
# of Video Copies	0								
# of Video Channels	4								
Time/Tape (Video) (hrs)	1.9							<i>Per Day</i>	<i>567.53</i>
Time/Tape (ESC) (hrs)	4								
# Lowerings	4								
Imagenix Sonar - If used, costs included in Data Logging									

DSL/DSOG Operations Summaries

Cruise Id:	UW: TN114	DSL: Rona2000 (Endeavour Vent Field – plume imaging)
Chief Scientist (s):	Peter Rona/ Rutgers	
Vessel:	R/V Thomas G. Thompson, U. Washington	
Port of Embarkation:	Seattle, WA	
Port of DisEmbarkation:	Seattle, WA	
Start Date of Cruise:	07/21/00	
End Date of Cruise:	07/31/00	
Operational Area(s):	Endeavour Vent Field	
OpArea Latitude:	~ 46 N	
OpArea Longitude:	~ 129 W	
UTM Zone:	9	
Operations:	JASON Ops – Standard Video (B/W, 1-Chip), 35mm, Imagenex, SM2000 with rotator	
Navigation:	Ship: Pcode GPS JASON/Medea: ALBL F.O. Mode, ALBL Single Cycle; L K Clockwise	

JASON - Lowering Summaries (All Times GMT)

Lowering Id	Start/Launch	Start Data	End Data	End/On Deck	Line/Area	Data (Hrs:Mns:Secs)	Lowering (Hrs:Mns:Secs)	Coverage (Nmiles)	Comments
JAS-282	7/23/00 2:36	7/23/00 5:20	7/23/00 17:10	7/23/00 19:52	Salut	11:50:00	17:16:00	(na)	camera work, imagenex, SM2000
JAS-283	7/23/00 23:49	7/24/00 1:57	7/28/00 14:00	7/28/00 15:36		108:03:00	111:47:00	(na)	RECORD LENGTH! sm2000 imaging and video surveys
JAS-284	7/29/00 1:17			7/29/00 2:23		0:00:00	1:06:00	(na)	Got to 400m and discovered Temperature probe was NG
JAS-285	7/29/00 6:55	7/29/00 9:17	7/30/00 20:14	7/30/00 22:09		34:57:00	39:14:00	(na)	No Imagenex
		Totals:				154:50:00	169:23:00	(na)	

Watch Bill

	12 to 4	4 to 8	8 to 12
Watch Leader	Darrell Jackson	Chris Jones	Peter Rona
Sonar Ops	Dave Palmer	Kyohiko Mitzsuzawa/Shiraishi	Karen Bemis
Datalogger	Kevin Conley	Antoine Page	Ravi/Shashank
Pilot	Will Sellers	Matt Heintz	Martin Bowen
Engineer	Mark Drewery	Bob Elder (Yogi)	Tito Collacius
Navigator	Maureen Majewski	Ant'ny Tarentino	Tom Crook

JASON Serial Port Lineups - dlog1

Com #	DigiBoard	Digi Port	Data Type	dlog1 Cable #	NULL at dlog1	Source/Target	Source Cable #	B,P,DB,SB	NULL at Src	Comments
1	N/A	N/A								
2	N/A	N/A								
3	1	1	JASON Telem	A1220	no	Topside	A1574	9600,N,8,1	??	PAS string, other data
4	1	2	Navigation	A1221	no	NavDisp	A1571	9600,N,8,1	??	Multicast
5	1	3	Imagenex	A1222	no	Imagenex Top	A1584	9600,N,8,1	??	
6	1	4								
7	1	5								
8	1	6								
9	1	7	Doppler			JASON Topside	#14 (1613)	19200,N,8,1		added as test during JAS-285
10	1	8	Video Annotation	A1038	no	SCT-50 chain	????	9600,N,8,1	??	direct, not via patch bay
11	2	1								
12	2	2								
13	2	3								
14	2	4								
15	2	5			no					
16	2	6	Time	A1227	no	LBL Nav	A1587	9600,N,8,1	yes	
17	2	7								
18	2	8	Time	A1237	no	JASON Topside	A1621	9600,N,8,1	??	

Video Router

	<i>Source</i>		<i>Destination</i>
1	SubSea 1	1	Monitor 1 (VD 6)
2	SubSea 2	2	Monitor 2 (VD 7)
3	SubSea 3	3	Monitor 3 (VD 8)
4	SubSea 4	4	Monitor 4 (VD 9)
5	VD1 (VCR 1)	5	Pilot (VD 5)
6	VD2 (VCR 2)	6	Engineer (VD10)
7	VD3 (VCR 3)	7	Science
8	VD4 (VCR 4)	8	VD3, Channel B
9	Color Bars	9	VD4, Channel B
10		10	Frame Grabber
11	Deck 1		
12	Deck 2		
13			SubSea 1: Hardwire to
14			Science 2, Camera 11
15			
16			
17			
18			
19			
20	SMPTE Out via VPB		

JASON Hi8 Video Tape List

Tape Id	Start Date/Time	End Date/Time	Data Level	Lowering	Deck	VidSrc	Site	Comments
Hi8-001-W	7/23/00 5:23	7/23/00 7:15	Working	JAS-282	1	Brow	Salut	switching camras at beginning
Hi8-001-A	7/23/00 5:23	7/23/00 7:16	Archive	JAS-282	3	Brow	Salut	
Hi8-002-W	7/23/00 5:23	7/23/00 7:17	Working	JAS-282	2	P&T	Salut	
Hi8-002-A	7/23/00 5:23	7/23/00 7:18	Archive	JAS-282	4	P&T	Salut	
Hi8-003-W	7/23/00 7:15	7/23/00 8:58	Working	JAS-282	1	Brow	Salut	
Hi8-003-A	7/23/00 7:16	7/23/00 8:59	Archive	JAS-282	3	Brow	Salut	
Hi8-004-W	7/23/00 7:17	7/23/00 9:00	Working	JAS-282	2	P&T	Salut	
Hi8-004-A	7/23/00 7:18	7/23/00 9:00	Archive	JAS-282	4	P&T	Salut	
Hi8-005-W	7/23/00 8:58	7/23/00 10:36	Working	JAS-282	1	Brow	Salut	
Hi8-005-A	7/23/00 8:59	7/23/00 10:36	Archive	JAS-282	3	Brow	Salut	
Hi8-006-W	7/23/00 9:00	7/23/00 10:37	Working	JAS-282	2	P&T	Salut	
Hi8-006-A	7/23/00 9:00	7/23/00 10:38	Archive	JAS-282	4	P&T	Salut	
Hi8-007-W	7/23/00 10:36	7/23/00 12:30	Working	JAS-282	1	Brow	Salut	
Hi8-007-A	7/23/00 10:36	7/23/00 12:30	Archive	JAS-282	3	Brow	Salut	
Hi8-008-W	7/23/00 10:37	7/23/00 12:31	Working	JAS-282	2	P&T	Salut	
Hi8-008-A	7/23/00 10:38	7/23/00 12:31	Archive	JAS-282	4	P&T	Salut	
Hi8-009-W	7/23/00 12:30	7/23/00 14:23	Working	JAS-282	1	Brow	Salut	
Hi8-009-A	7/23/00 12:30	7/23/00 14:23	Archive	JAS-282	3	Brow	Salut	
Hi8-010-W	7/23/00 12:31	7/23/00 14:23	Working	JAS-282	2	P&T	Salut	
Hi8-010-A	7/23/00 12:31	7/23/00 14:24	Archive	JAS-282	4	P&T	Salut	
Hi8-011-W	7/23/00 14:23	7/23/00 16:08	Working	JAS-282	1	Brow	Salut	
Hi8-011-A	7/23/00 14:23	7/23/00 16:08	Archive	JAS-282	3	Brow	Salut	
Hi8-012-W	7/23/00 14:23	7/23/00 16:09	Working	JAS-282	2	P&T	Salut	
Hi8-012-A	7/23/00 14:24	7/23/00 16:09	Archive	JAS-282	4	P&T	Salut	
Hi8-013-W	7/23/00 16:08	7/23/00 17:56	Working	JAS-282	1	Brow	Salut	
Hi8-013-A	7/23/00 16:08	7/23/00 17:56	Archive	JAS-282	3	Brow	Salut	
Hi8-014-W	7/23/00 16:09	7/23/00 17:57	Working	JAS-282	2	P&T	Salut	
Hi8-014-A	7/23/00 16:09	7/23/00 17:57	Archive	JAS-282	4	P&T	Salut	
Hi8-015-W	7/24/00 2:00	7/24/00 3:53	Working	JAS-283	1	Brow	S&M	Cameras switched a bit
Hi8-015-A	7/24/00 2:00	7/24/00 3:53	Archive	JAS-283	3	Brow	S&M	
Hi8-016-W	7/24/00 2:00	7/24/00 3:53	Working	JAS-283	2	P&T	S&M	
Hi8-016-A	7/24/00 2:00	7/24/00 3:53	Archive	JAS-283	4	P&T	S&M	
Hi8-017-W	7/24/00 3:54	7/24/00 5:48	Working	JAS-283	1	Brow	S&M	
Hi8-017-A	7/24/00 3:54	7/24/00 5:48	Archive	JAS-283	3	Brow	S&M	
Hi8-018-W	7/24/00 3:54	7/24/00 5:48	Working	JAS-283	2	P&T	S&M	
Hi8-018-A	7/24/00 3:54	7/24/00 5:48	Archive	JAS-283	4	P&T	S&M	
Hi8-019-W	7/24/00 5:49	7/24/00 7:43	Working	JAS-283	1	Brow	S&M	
Hi8-019-A	7/24/00 5:49	7/24/00 7:44	Archive	JAS-283	3	Brow	S&M	
Hi8-020-W	7/24/00 5:49	7/24/00 7:44	Working	JAS-283	2	P&T	S&M	
Hi8-020-A	7/24/00 5:49	7/24/00 7:45	Archive	JAS-283	4	P&T	S&M	
Hi8-021-W	7/24/00 7:43	7/24/00 9:35	Working	JAS-283	1	Brow	S&M	
Hi8-021-A	7/24/00 7:44	7/24/00 9:36	Archive	JAS-283	3	Brow	S&M	
Hi8-022-W	7/24/00 7:44	7/24/00 9:36	Working	JAS-283	2	P&T	S&M	
Hi8-022-A	7/24/00 7:45	7/24/00 9:37	Archive	JAS-283	4	P&T	S&M	
Hi8-023-W	7/24/00 9:35	7/24/00 11:25	Working	JAS-283	1	Brow	S&M	
Hi8-023-A	7/24/00 9:36	7/24/00 11:25	Archive	JAS-283	3	Brow	S&M	
Hi8-024-W	7/24/00 9:36	7/24/00 11:26	Working	JAS-283	2	P&T	S&M	
Hi8-024-A	7/24/00 9:37	7/24/00 11:26	Archive	JAS-283	4	P&T	S&M	
Hi8-025-W	7/24/00 11:25	7/24/00 13:25	Working	JAS-283	1	Brow	S&M	
Hi8-025-A	7/24/00 11:25	7/24/00 13:25	Archive	JAS-283	3	Brow	S&M	
Hi8-026-W	7/24/00 11:26	7/24/00 13:26	Working	JAS-283	2	P&T	S&M	
Hi8-026-A	7/24/00 11:26	7/24/00 13:26	Archive	JAS-283	4	P&T	S&M	
Hi8-027-W	7/24/00 13:25	7/24/00 15:19	Working	JAS-283	1	Brow	S&M	
Hi8-027-A	7/24/00 13:25	7/24/00 15:19	Archive	JAS-283	3	Brow	S&M	
Hi8-028-W	7/24/00 13:26	7/24/00 15:19	Working	JAS-283	2	P&T	S&M	
Hi8-028-A	7/24/00 13:26	7/24/00 15:19	Archive	JAS-283	4	P&T	S&M	
Hi8-029-W	7/24/00 15:20	7/24/00 17:15	Working	JAS-283	1	Brow	S&M	
Hi8-029-A	7/24/00 15:20	7/24/00 17:15	Archive	JAS-283	3	Brow	S&M	
Hi8-030-W	7/24/00 15:20	7/24/00 17:15	Working	JAS-283	2	P&T	S&M	
Hi8-030-A	7/24/00 15:20	7/24/00 17:15	Archive	JAS-283	4	P&T	S&M	
Hi8-031-W	7/24/00 17:16	7/24/00 19:03	Working	JAS-283	1	Brow	S&M	
Hi8-031-A	7/24/00 17:16	7/24/00 19:04	Archive	JAS-283	3	Brow	S&M	
Hi8-032-W	7/24/00 17:16	7/24/00 19:04	Working	JAS-283	2	P&T	S&M	
Hi8-032-A	7/24/00 17:16	7/24/00 19:05	Archive	JAS-283	4	P&T	S&M	

Tape Id	Start Date/Time	End Date/Time	Data Level	Lowering	Deck	VidSrc	Site	Comments
Hi8-033-W	7/24/00 19:03	7/24/00 20:55	Working	JAS-283	1	Brow		
Hi8-033-A	7/24/00 19:04	7/24/00 20:56	Archive	JAS-283	3	Brow		
Hi8-034-W	7/24/00 19:04	7/24/00 20:57	Working	JAS-283	2	P&T		
Hi8-034-A	7/24/00 19:05	7/24/00 20:57	Archive	JAS-283	4	P&T		
Hi8-035-W	7/24/00 20:55	7/24/00 22:43	Working	JAS-283	1	Brow		
Hi8-035-A	7/24/00 20:56	7/24/00 22:43	Archive	JAS-283	3	Brow		
Hi8-036-W	7/24/00 20:57	7/24/00 22:44	Working	JAS-283	2	P&T		
Hi8-036-A	7/24/00 20:57	7/24/00 22:44	Archive	JAS-283	4	P&T		
Hi8-037-W	7/24/00 22:43	7/25/00 0:32	Working	JAS-283	1	Brow		
Hi8-037-A	7/24/00 22:43	7/25/00 0:33	Archive	JAS-283	3	Brow		
Hi8-038-W	7/24/00 22:44	7/25/00 0:33	Working	JAS-283	2	P&T		
Hi8-038-A	7/24/00 22:44	7/25/00 0:34	Archive	JAS-283	4	P&T		
Hi8-039-W	7/25/00 0:32	7/25/00 2:25	Working	JAS-283	1	Brow		
Hi8-039-A	7/25/00 0:33	7/25/00 2:26	Archive	JAS-283	3	Brow		
Hi8-040-W	7/25/00 0:33	7/25/00 2:26	Working	JAS-283	2	P&T		
Hi8-040-A	7/25/00 0:34	7/25/00 2:27	Archive	JAS-283	4	P&T		
Hi8-041-W	7/25/00 2:25	7/25/00 4:16	Working	JAS-283	1	Brow	Milli-Q	
Hi8-041-A	7/25/00 2:26	7/25/00 4:16	Archive	JAS-283	3	Brow	Milli-Q	
Hi8-042-W	7/25/00 2:26	7/25/00 4:16	Working	JAS-283	2	P&T	Milli-Q	
Hi8-042-A	7/25/00 2:27	7/25/00 4:16	Archive	JAS-283	4	P&T	Milli-Q	
Hi8-043-W	7/25/00 4:18	7/25/00 6:18	Working	JAS-283	1	Brow	Milli-Q	
Hi8-043-A	7/25/00 4:18	7/25/00 6:18	Archive	JAS-283	3	Brow	Milli-Q	
Hi8-044-W	7/25/00 4:18	7/25/00 6:18	Working	JAS-283	2	P&T	Milli-Q	
Hi8-044-A	7/25/00 4:18	7/25/00 6:18	Archive	JAS-283	4	P&T	Milli-Q	
Hi8-045-W	7/25/00 6:19	7/25/00 8:17	Working	JAS-283	1	Brow	Milli-Q	
Hi8-045-A	7/25/00 6:19	7/25/00 8:18	Archive	JAS-283	3	Brow	Milli-Q	
Hi8-046-W	7/25/00 6:19	7/25/00 8:18	Working	JAS-283	2	P&T	Milli-Q	
Hi8-046-A	7/25/00 6:19	7/25/00 8:19	Archive	JAS-283	4	P&T	Milli-Q	
Hi8-047-W	7/25/00 8:17	7/25/00 10:09	Working	JAS-283	1	Brow	Milli-Q	
Hi8-047-A	7/25/00 8:18	7/25/00 10:10	Archive	JAS-283	3	Brow	Milli-Q	
Hi8-048-W	7/25/00 8:18	7/25/00 10:10	Working	JAS-283	2	P&T	Milli-Q	
Hi8-048-A	7/25/00 8:19	7/25/00 10:10	Archive	JAS-283	4	P&T	Milli-Q	
Hi8-049-W	7/25/00 10:09	7/25/00 12:01	Working	JAS-283	1	Brow	Milli-Q	
Hi8-049-A	7/25/00 10:10	7/25/00 12:01	Archive	JAS-283	3	Brow	Milli-Q	
Hi8-050-W	7/25/00 10:10	7/25/00 12:02	Working	JAS-283	2	P&T	Milli-Q	
Hi8-050-A	7/25/00 10:10	7/25/00 12:02	Archive	JAS-283	4	P&T	Milli-Q	
Hi8-051-W	7/25/00 12:01	7/25/00 13:52	Working	JAS-283	1	Brow	Milli-Q	
Hi8-051-A	7/25/00 12:01	7/25/00 13:53	Archive	JAS-283	3	Brow	Milli-Q	
Hi8-052-W	7/25/00 12:02	7/25/00 13:53	Working	JAS-283	2	P&T	Milli-Q	
Hi8-052-A	7/25/00 12:02	7/25/00 13:53	Archive	JAS-283	4	P&T	Milli-Q	
Hi8-053-W	7/25/00 13:52	7/25/00 15:48	Working	JAS-283	1	Brow	Milli-Q	
Hi8-053-A	7/25/00 13:53	7/25/00 15:48	Archive	JAS-283	3	Brow	Milli-Q	
Hi8-054-W	7/25/00 13:53	7/25/00 15:48	Working	JAS-283	2	P&T	Milli-Q	
Hi8-054-A	7/25/00 13:53	7/25/00 15:48	Archive	JAS-283	4	P&T	Milli-Q	
Hi8-055-W	7/25/00 15:48	7/25/00 17:43	Working	JAS-283	1	Brow		
Hi8-055-A	7/25/00 15:48	7/25/00 17:43	Archive	JAS-283	3	Brow		
Hi8-056-W	7/25/00 15:48	7/25/00 17:43	Working	JAS-283	2	P&T		
Hi8-056-A	7/25/00 15:48	7/25/00 17:43	Archive	JAS-283	4	P&T		
Hi8-057-W	7/25/00 17:43	7/25/00 19:40	Working	JAS-283	1	Brow	Grotto	
Hi8-057-A	7/25/00 17:43	7/25/00 19:40	Archive	JAS-283	3	Brow	Grotto	
Hi8-058-W	7/25/00 17:43	7/25/00 19:41	Working	JAS-283	2	P&T	Grotto	
Hi8-058-A	7/25/00 17:43	7/25/00 19:41	Archive	JAS-283	4	P&T	Grotto	
Hi8-059-W	7/25/00 19:40	7/25/00 21:33	Working	JAS-283	1	Brow	Grotto	
Hi8-059-A	7/25/00 19:40	7/25/00 21:33	Archive	JAS-283	3	Brow	Grotto	
Hi8-060-W	7/25/00 19:41	7/25/00 21:33	Working	JAS-283	2	P&T	Grotto	
Hi8-060-A	7/25/00 19:41	7/25/00 21:33	Archive	JAS-283	4	P&T	Grotto	
Hi8-061-W	7/25/00 21:33	7/25/00 23:25	Working	JAS-283	1	Brow	Grotto	
Hi8-061-A	7/25/00 21:33	7/25/00 23:25	Archive	JAS-283	3	Brow	Grotto	
Hi8-062-W	7/25/00 21:33	7/25/00 23:26	Working	JAS-283	2	P&T	Grotto	
Hi8-062-A	7/25/00 21:33	7/25/00 23:26	Archive	JAS-283	4	P&T	Grotto	
Hi8-063-W	7/25/00 23:25	7/26/00 1:15	Working	JAS-283	1	Brow	Lobo	Time inexact
Hi8-063-A	7/25/00 23:25	7/26/00 1:15	Archive	JAS-283	3	Brow	Lobo	
Hi8-064-W	7/25/00 23:26	7/26/00 1:15	Working	JAS-283	2	P&T	Lobo	
Hi8-064-A	7/25/00 23:26	7/26/00 1:15	Archive	JAS-283	4	P&T	Lobo	
Hi8-065-W	7/26/00 1:15	7/26/00 2:59	Working	JAS-283	1	Brow	Lobo	
Hi8-065-A	7/26/00 1:15	7/26/00 2:59	Archive	JAS-283	3	Brow	Lobo	
Hi8-066-W	7/26/00 1:15	7/26/00 2:59	Working	JAS-283	2	P&T	Lobo	
Hi8-066-A	7/26/00 1:15	7/26/00 2:59	Archive	JAS-283	4	P&T	Lobo	

Tape Id	Start Date/Time	End Date/Time	Data Level	Lowering	Deck	VidSrc	Site	Comments
Hi8-067-W	7/26/00 2:59	7/26/00 4:59	Working	JAS-283	1	Brow	Lobo	
Hi8-067-A	7/26/00 2:59	7/26/00 4:59	Archive	JAS-283	3	Brow	Lobo	
Hi8-068-W	7/26/00 2:59	7/26/00 4:59	Working	JAS-283	2	P&T	Lobo	
Hi8-068-A	7/26/00 2:59	7/26/00 4:59	Archive	JAS-283	4	P&T	Lobo	
Hi8-069-W	7/26/00 5:00	7/26/00 7:00	Working	JAS-283	1	Brow	Hulk/Crypto	some camera switching
Hi8-069-A	7/26/00 5:00	7/26/00 7:01	Archive	JAS-283	3	Brow	Hulk/Crypto	
Hi8-070-W	7/26/00 5:00	7/26/00 7:01	Working	JAS-283	2	P&T	Hulk/Crypto	
Hi8-070-A	7/26/00 5:00	7/26/00 7:01	Archive	JAS-283	4	P&T	Hulk/Crypto	
Hi8-071-W	7/26/00 7:00	7/26/00 8:51	Working	JAS-283	1	Brow	Crypto	
Hi8-071-A	7/26/00 7:01	7/26/00 8:52	Archive	JAS-283	3	Brow	Crypto	
Hi8-072-W	7/26/00 7:01	7/26/00 8:52	Working	JAS-283	2	P&T	Crypto	
Hi8-072-A	7/26/00 7:01	7/26/00 8:52	Archive	JAS-283	4	P&T	Crypto	
Hi8-073-W	7/26/00 8:51	7/26/00 10:45	Working	JAS-283	1	Brow	Crypto	
Hi8-073-A	7/26/00 8:52	7/26/00 10:45	Archive	JAS-283	3	Brow	Crypto	
Hi8-074-W	7/26/00 8:52	7/26/00 10:45	Working	JAS-283	2	P&T	Crypto	
Hi8-074-A	7/26/00 8:52	7/26/00 10:45	Archive	JAS-283	4	P&T	Crypto	
Hi8-075-W	7/26/00 10:45	7/26/00 12:37	Working	JAS-283	1	Brow		
Hi8-075-A	7/26/00 10:45	7/26/00 12:38	Archive	JAS-283	3	Brow		
Hi8-076-W	7/26/00 10:45	7/26/00 12:38	Working	JAS-283	2	P&T		
Hi8-076-A	7/26/00 10:45	7/26/00 12:39	Archive	JAS-283	4	P&T		
Hi8-077-W	7/26/00 12:37	7/26/00 14:29	Working	JAS-283	1	Brow		
Hi8-077-A	7/26/00 12:38	7/26/00 14:30	Archive	JAS-283	3	Brow		
Hi8-078-W	7/26/00 12:38	7/26/00 14:30	Working	JAS-283	2	P&T		
Hi8-078-A	7/26/00 12:39	7/26/00 14:31	Archive	JAS-283	4	P&T		
Hi8-079-W	7/26/00 14:29	7/26/00 16:23	Working	JAS-283	1	Brow		
Hi8-079-A	7/26/00 14:30	7/26/00 16:23	Archive	JAS-283	3	Brow		
Hi8-080-W	7/26/00 14:30	7/26/00 16:23	Working	JAS-283	2	P&T		
Hi8-080-A	7/26/00 14:31	7/26/00 16:23	Archive	JAS-283	4	P&T		
Hi8-081-W	7/26/00 16:25	7/26/00 18:22	Working	JAS-283	1	Brow		
Hi8-081-A	7/26/00 16:25	7/26/00 18:22	Archive	JAS-283	3	Brow		
Hi8-082-W	7/26/00 16:25	7/26/00 18:22	Working	JAS-283	2	P&T		
Hi8-082-A	7/26/00 16:25	7/26/00 18:22	Archive	JAS-283	4	P&T		
Hi8-083-W	7/26/00 18:23	7/26/00 20:14	Working	JAS-283	1	Brow		
Hi8-083-A	7/26/00 18:23	7/26/00 20:14	Archive	JAS-283	3	Brow		
Hi8-084-W	7/26/00 18:23	7/26/00 20:15	Working	JAS-283	2	P&T		
Hi8-084-A	7/26/00 18:23	7/26/00 20:15	Archive	JAS-283	4	P&T		
Hi8-085-W	7/26/00 20:14	7/26/00 22:10	Working	JAS-283	1	Brow		not recording all the time
Hi8-085-A	7/26/00 20:14	7/26/00 22:10	Archive	JAS-283	3	Brow		
Hi8-086-W	7/26/00 20:15	7/26/00 22:10	Working	JAS-283	2	P&T		
Hi8-086-A	7/26/00 20:15	7/26/00 22:10	Archive	JAS-283	4	P&T		
Hi8-087-W	7/26/00 22:10	7/27/00 0:00	Working	JAS-283	1	Brow		
Hi8-087-A	7/26/00 22:10	7/27/00 0:01	Archive	JAS-283	3	Brow		
Hi8-088-W	7/26/00 22:10	7/27/00 0:01	Working	JAS-283	2	P&T		
Hi8-088-A	7/26/00 22:10	7/27/00 0:02	Archive	JAS-283	4	P&T		
Hi8-089-W	7/27/00 0:00	7/27/00 1:55	Working	JAS-283	1	Brow		
Hi8-089-A	7/27/00 0:01	7/27/00 1:56	Archive	JAS-283	3	Brow		
Hi8-090-W	7/27/00 0:01	7/27/00 1:56	Working	JAS-283	2	P&T		
Hi8-090-A	7/27/00 0:02	7/27/00 1:57	Archive	JAS-283	4	P&T		
Hi8-091-W	7/27/00 1:55	7/27/00 3:44	Working	JAS-283	1	Brow		
Hi8-091-A	7/27/00 1:56	7/27/00 3:44	Archive	JAS-283	3	Brow		
Hi8-092-W	7/27/00 1:56	7/27/00 3:44	Working	JAS-283	2	P&T		
Hi8-092-A	7/27/00 1:57	7/27/00 3:44	Archive	JAS-283	4	P&T		
Hi8-093-W	7/27/00 3:45	7/27/00 5:45	Working	JAS-283	1	Brow		
Hi8-093-A	7/27/00 3:45	7/27/00 5:45	Archive	JAS-283	3	Brow		
Hi8-094-W	7/27/00 3:45	7/27/00 5:45	Working	JAS-283	2	P&T		
Hi8-094-A	7/27/00 3:45	7/27/00 5:45	Archive	JAS-283	4	P&T		
Hi8-095-W	7/27/00 5:45	7/27/00 7:50	Working	JAS-283	1	Brow		Cameras may have been switched here Not sure for how long
Hi8-095-A	7/27/00 5:45	7/27/00 7:50	Archive	JAS-283	3	Brow		
Hi8-096-W	7/27/00 5:45	7/27/00 7:51	Working	JAS-283	2	P&T		
Hi8-096-A	7/27/00 5:45	7/27/00 7:51	Archive	JAS-283	4	P&T		
Hi8-097-W	7/27/00 7:50	7/27/00 9:45	Working	JAS-283	1	Brow		
Hi8-097-A	7/27/00 7:50	7/27/00 9:45	Archive	JAS-283	3	Brow		
Hi8-098-W	7/27/00 7:51	7/27/00 9:46	Working	JAS-283	2	P&T		
Hi8-098-A	7/27/00 7:51	7/27/00 9:46	Archive	JAS-283	4	P&T		
Hi8-099-W	7/27/00 9:45	7/27/00 11:36	Working	JAS-283	1	Brow		By now the cameras were switched back
Hi8-099-A	7/27/00 9:45	7/27/00 11:37	Archive	JAS-283	3	Brow		

Tape Id	Start Date/Time	End Date/Time	Data Level	Lowering	Deck	VidSrc	Site	Comments
Hi8-100-W	7/27/00 9:46	7/27/00 11:37	Working	JAS-283	2	P&T		
Hi8-100-A	7/27/00 9:46	7/27/00 11:38	Archive	JAS-283	4	P&T		
Hi8-101-W	7/27/00 11:36	7/27/00 13:25	Working	JAS-283	1	Brow		
Hi8-101-A	7/27/00 11:37	7/27/00 13:26	Archive	JAS-283	3	Brow		
Hi8-102-W	7/27/00 11:37	7/27/00 13:26	Working	JAS-283	2	P&T		
Hi8-102-A	7/27/00 11:38	7/27/00 13:27	Archive	JAS-283	4	P&T		
Hi8-103-W	7/27/00 13:25	7/27/00 15:28	Working	JAS-283	1	P&T		
Hi8-103-A	7/27/00 13:26	7/27/00 15:28	Archive	JAS-283	3	P&T		
Hi8-104-W	7/27/00 13:26	7/27/00 15:28	Working	JAS-283	2	Brow		interchange brow and P&T
Hi8-104-A	7/27/00 13:27	7/27/00 15:28	Archive	JAS-283	4	Brow		
Hi8-105-W	7/27/00 15:28	7/27/00 17:21	Working	JAS-283	1	Brow		
Hi8-105-A	7/27/00 15:28	7/27/00 17:21	Archive	JAS-283	3	Brow		
Hi8-106-W	7/27/00 15:28	7/27/00 17:21	Working	JAS-283	2	P&T		
Hi8-106-A	7/27/00 15:28	7/27/00 17:21	Archive	JAS-283	4	P&T		
Hi8-107-W	7/27/00 17:21	7/27/00 19:17	Working	JAS-283	1	P&T		
Hi8-107-A	7/27/00 17:21	7/27/00 19:17	Archive	JAS-283	3	P&T		
Hi8-108-W	7/27/00 17:21	7/27/00 19:17	Working	JAS-283	2	Brow		
Hi8-108-A	7/27/00 17:21	7/27/00 19:17	Archive	JAS-283	4	Brow		
Hi8-109-W	7/27/00 19:17	7/27/00 21:09	Working	JAS-283	1	P&T		
Hi8-109-A	7/27/00 19:17	7/27/00 21:09	Archive	JAS-283	3	P&T		
Hi8-110-W	7/27/00 19:17	7/27/00 21:09	Working	JAS-283	2	Brow		
Hi8-110-A	7/27/00 19:17	7/27/00 21:09	Archive	JAS-283	4	Brow		
Hi8-111-W	7/27/00 21:09	7/27/00 23:01	Working	JAS-283	1	P&T		
Hi8-111-A	7/27/00 21:09	7/27/00 23:01	Archive	JAS-283	3	P&T		
Hi8-112-W	7/27/00 21:09	7/27/00 23:02	Working	JAS-283	2	Brow		
Hi8-112-A	7/27/00 21:09	7/27/00 23:02	Archive	JAS-283	4	Brow		
Hi8-113-W	7/27/00 23:01	7/28/00 0:55	Working	JAS-283	1	P&T		
Hi8-113-A	7/27/00 23:01	7/28/00 0:55	Archive	JAS-283	3	P&T		
Hi8-114-W	7/27/00 23:02	7/28/00 0:55	Working	JAS-283	2	Brow		
Hi8-114-A	7/27/00 23:02	7/28/00 0:56	Archive	JAS-283	4	Brow		
Hi8-115-W	7/28/00 0:55	7/28/00 2:46	Working	JAS-283	1	P&T		
Hi8-115-A	7/28/00 0:55	7/28/00 2:46	Archive	JAS-283	3	P&T		
Hi8-116-W	7/28/00 0:55	7/28/00 2:46	Working	JAS-283	2	Brow		
Hi8-116-A	7/28/00 0:56	7/28/00 2:47	Archive	JAS-283	4	Brow		
Hi8-117-W	7/28/00 2:46	7/28/00 4:38	Working	JAS-283	1	Brow		
Hi8-117-A	7/28/00 2:46	7/28/00 4:38	Archive	JAS-283	3	Brow		
Hi8-118-W	7/28/00 2:46	7/28/00 4:38	Working	JAS-283	2	P&T		
Hi8-118-A	7/28/00 2:47	7/28/00 4:38	Archive	JAS-283	4	P&T		
Hi8-119-W	7/28/00 4:38	7/28/00 6:39	Working	JAS-283	1	Brow		
Hi8-119-A	7/28/00 4:38	7/28/00 6:39	Archive	JAS-283	3	Brow		
Hi8-120-W	7/28/00 4:38	7/28/00 6:39	Working	JAS-283	2	P&T		
Hi8-120-A	7/28/00 4:38	7/28/00 6:40	Archive	JAS-283	4	P&T		
Hi8-121-W	7/28/00 6:39	7/28/00 8:40	Working	JAS-283	1	Brow		
Hi8-121-A	7/28/00 6:39	7/28/00 8:40	Archive	JAS-283	3	Brow		
Hi8-122-W	7/28/00 6:39	7/28/00 8:40	Working	JAS-283	2	P&T		
Hi8-122-A	7/28/00 6:40	7/28/00 8:40	Archive	JAS-283	4	P&T		
Hi8-123-W	7/28/00 8:40	7/28/00 10:28	Working	JAS-283	1	Brow		
Hi8-123-A	7/28/00 8:40	7/28/00 10:28	Archive	JAS-283	3	Brow		
Hi8-124-W	7/28/00 8:40	7/28/00 10:28	Working	JAS-283	2	P&T		

Tape Id	Start Date/Time	End Date/Time	Data Level	Lowering	Deck	VidSrc	Site	Comments
Hi8-124-A	7/28/00 8:40	7/28/00 10:29	Archive	JAS-283	4	P&T		
Hi8-125-W	7/28/00 10:28	7/28/00 12:21	Working	JAS-283	1	Brow		
Hi8-125-A	7/28/00 10:28	7/28/00 12:22	Archive	JAS-283	3	Brow		
Hi8-126-W	7/28/00 10:28	7/28/00 12:22	Working	JAS-283	2	P&T		
Hi8-126-A	7/28/00 10:29	7/28/00 12:22	Archive	JAS-283	4	P&T		
Hi8-127-W	7/28/00 12:21	7/28/00 13:58	Working	JAS-283	1	Brow		
Hi8-127-A	7/28/00 12:22	7/28/00 13:58	Archive	JAS-283	3	Brow		
Hi8-128-W	7/28/00 12:22	7/28/00 13:58	Working	JAS-283	2	P&T		
Hi8-128-A	7/28/00 12:22	7/28/00 13:58	Archive	JAS-283	4	P&T		last tape of JAS-283
Hi8-129-W	7/29/00 8:37	7/29/00 10:22	Working	JAS-285	1	Brow		first tape of JAS-285 (JAS-284 never got to bottom)
Hi8-129-A	7/29/00 8:37	7/29/00 10:22	Archive	JAS-285	3	Brow		
Hi8-130-W	7/29/00 8:37	7/29/00 10:22	Working	JAS-285	2	P&T		
Hi8-130-A	7/29/00 8:37	7/29/00 10:22	Archive	JAS-285	4	P&T		
Hi8-131-W	7/29/00 10:22	7/29/00 12:14	Working	JAS-285	1	Brow		
Hi8-131-A	7/29/00 10:22	7/29/00 12:14	Archive	JAS-285	3	Brow		
Hi8-132-W	7/29/00 10:22	7/29/00 12:14	Working	JAS-285	2	P&T		
Hi8-132-A	7/29/00 10:22	7/29/00 12:14	Archive	JAS-285	4	P&T		
Hi8-133-W	7/29/00 12:14	7/29/00 14:09	Working	JAS-285	1	Brow		
Hi8-133-A	7/29/00 12:14	7/29/00 14:10	Archive	JAS-285	3	Brow		
Hi8-134-W	7/29/00 12:14	7/29/00 14:10	Working	JAS-285	2	P&T		
Hi8-134-A	7/29/00 12:14	7/29/00 14:10	Archive	JAS-285	4	P&T		
Hi8-135-W	7/29/00 14:09	7/29/00 16:04	Working	JAS-285	1	Brow		
Hi8-135-A	7/29/00 14:10	7/29/00 16:04	Archive	JAS-285	3	Brow		
Hi8-136-W	7/29/00 14:10	7/29/00 16:04	Working	JAS-285	2	P&T		
Hi8-136-A	7/29/00 14:10	7/29/00 16:04	Archive	JAS-285	4	P&T		
Hi8-137-W	7/29/00 16:05	7/29/00 18:00	Working	JAS-285	1	Brow		
Hi8-137-A	7/29/00 16:05	7/29/00 18:00	Archive	JAS-285	3	Brow		
Hi8-138-W	7/29/00 16:05	7/29/00 18:00	Working	JAS-285	2	P&T		
Hi8-138-A	7/29/00 16:05	7/29/00 18:00	Archive	JAS-285	4	P&T		
Hi8-139-W	7/29/00 18:01	7/29/00 19:56	Working	JAS-285	1	Brow		
Hi8-139-A	7/29/00 18:01	7/29/00 19:56	Archive	JAS-285	3	Brow		
Hi8-140-W	7/29/00 18:01	7/29/00 19:56	Working	JAS-285	2	P&T		
Hi8-140-A	7/29/00 18:01	7/29/00 19:56	Archive	JAS-285	4	P&T		
Hi8-141-W	7/29/00 19:56	7/29/00 21:48	Working	JAS-285	1	Brow		
Hi8-141-A	7/29/00 19:56	7/29/00 21:49	Archive	JAS-285	3	Brow		
Hi8-142-W	7/29/00 19:56	7/29/00 21:49	Working	JAS-285	2	P&T		
Hi8-142-A	7/29/00 19:56	7/29/00 21:50	Archive	JAS-285	4	P&T		
Hi8-143-W	7/29/00 21:48	7/29/00 23:51	Working	JAS-285	1	Brow		
Hi8-143-A	7/29/00 21:49	7/29/00 23:51	Archive	JAS-285	3	Brow		
Hi8-144-W	7/29/00 21:50	7/29/00 23:51	Working	JAS-285	2	P&T		
Hi8-144-A	7/29/00 21:50	7/29/00 23:51	Archive	JAS-285	4	P&T		
Hi8-145-W	7/29/00 23:51	7/30/00 1:41	Working	JAS-285	1	Brow		
Hi8-145-A	7/29/00 23:51	7/30/00 1:41	Archive	JAS-285	3	Brow		
Hi8-146-W	7/29/00 23:51	7/30/00 1:41	Working	JAS-285	2	P&T		
Hi8-146-A	7/29/00 23:51	7/30/00 1:41	Archive	JAS-285	4	P&T		
Hi8-147-W	7/30/00 1:41	7/30/00 3:37	Working	JAS-285	1	Brow		

Tape Id	Start Date/Time	End Date/Time	Data Level	Lowering	Deck	VidSrc	Site	Comments
Hi8-147-A	7/30/00 1:41	7/30/00 3:37	Archive	JAS-285	3	Brow		
Hi8-148-W	7/30/00 1:41	7/30/00 3:37	Working	JAS-285	2	P&T		
Hi8-148-A	7/30/00 1:41	7/30/00 3:37	Archive	JAS-285	4	P&T		
Hi8-149-W	7/30/00 3:37	7/30/00 5:38	Working	JAS-285	1	Brow		
Hi8-149-A	7/30/00 3:37	7/30/00 5:38	Archive	JAS-285	3	Brow		
Hi8-150-W	7/30/00 3:37	7/30/00 5:38	Working	JAS-285	2	P&T		
Hi8-150-A	7/30/00 3:37	7/30/00 5:38	Archive	JAS-285	4	P&T		
Hi8-151-W	7/30/00 5:38	7/30/00 7:40	Working	JAS-285	1	Brow		
Hi8-151-A	7/30/00 5:38	7/30/00 7:40	Archive	JAS-285	3	Brow		
Hi8-152-W	7/30/00 5:38	7/30/00 7:41	Working	JAS-285	2	P&T		
Hi8-152-A	7/30/00 5:38	7/30/00 7:41	Archive	JAS-285	4	P&T		
Hi8-153-W	7/30/00 7:40	7/30/00 9:33	Working	JAS-285	1	Brow		
Hi8-153-A	7/30/00 7:40	7/30/00 9:33	Archive	JAS-285	3	Brow		
Hi8-154-W	7/30/00 7:41	7/30/00 9:33	Working	JAS-285	2	P&T		
Hi8-154-A	7/30/00 7:41	7/30/00 9:33	Archive	JAS-285	4	P&T		
Hi8-155-W	7/30/00 9:33	7/30/00 11:24	Working	JAS-285	1	Brow		
Hi8-155-A	7/30/00 9:33	7/30/00 11:24	Archive	JAS-285	3	Brow		
Hi8-156-W	7/30/00 9:33	7/30/00 11:24	Working	JAS-285	2	P&T		
Hi8-156-A	7/30/00 9:33	7/30/00 11:25	Archive	JAS-285	4	P&T		
Hi8-157-W	7/30/00 11:24	7/30/00 13:15	Working	JAS-285	1	Brow		
Hi8-157-A	7/30/00 11:24	7/30/00 13:15	Archive	JAS-285	3	Brow		
Hi8-158-W	7/30/00 11:24	7/30/00 13:15	Working	JAS-285	2	P&T		
Hi8-158-A	7/30/00 11:25	7/30/00 13:15	Archive	JAS-285	4	P&T		
Hi8-159-W	7/30/00 13:15	7/30/00 15:11	Working	JAS-285	1	Brow		
Hi8-159-A	7/30/00 13:15	7/30/00 15:11	Archive	JAS-285	3	Brow		
Hi8-160-W	7/30/00 13:15	7/30/00 15:11	Working	JAS-285	2	P&T		
Hi8-160-A	7/30/00 13:15	7/30/00 15:11	Archive	JAS-285	4	P&T		
Hi8-161-W	7/30/00 15:12	7/30/00 17:09	Working	JAS-285	1	Brow		
Hi8-161-A	7/30/00 15:12	7/30/00 17:09	Archive	JAS-285	3	Brow		
Hi8-162-W	7/30/00 15:12	7/30/00 17:09	Working	JAS-285	2	P&T		
Hi8-162-A	7/30/00 15:12	7/30/00 17:09	Archive	JAS-285	4	P&T		
Hi8-163-W	7/30/00 17:10	7/30/00 19:02	Working	JAS-285	1	Brow		
Hi8-163-A	7/30/00 17:10	7/30/00 19:02	Archive	JAS-285	3	Brow		
Hi8-164-W	7/30/00 17:10	7/30/00 19:03	Working	JAS-285	2	P&T		
Hi8-164-A	7/30/00 17:10	7/30/00 19:03	Archive	JAS-285	4	P&T		
Hi8-165-W	7/30/00 19:02	7/30/00 20:56	Working	JAS-285	1	Brow		
Hi8-165-A	7/30/00 19:02	7/30/00 20:56	Archive	JAS-285	3	Brow		
Hi8-166-A	7/30/00 19:03	7/30/00 20:57	Working	JAS-285	2	P&T		
Hi8-166-A	7/30/00 19:03	7/30/00 20:57	Archive	JAS-285	4	P&T		
Hi8-167-W	7/30/00 20:56	7/30/00 22:10	Working	JAS-285	1	Brow		ascent through water column
Hi8-167-A	7/30/00 20:56	7/30/00 22:10	Archive	JAS-285	3	Brow		
Hi8-168-W	7/30/00 20:57	7/30/00 22:10	Working	JAS-285	2	P&T		
Hi8-168-A	7/30/00 20:57	7/30/00 22:10	Archive	JAS-285	4	P&T		

JASON Sensor Measurements

Lowering: JAS-282-283

Date: 7/23/00

Vehicle origin is forward bolt, bottom of "tether strain relief"

Sensor	X	Y	Z	Pitch	Roll	Yaw	Comments	Vehicle Tilts	Pitch	Roll
ESC	0.00	0.00	0.00	0.0	0.0		<i>Not on vehicle</i>	JASON sensor values	0.4	2.6
3Chip	0.00	0.00	0.00				<i>Not on vehicle</i>	Protractor/Level values	0.2	-0.5
IMA	-10.00	3.00	17.38	-4.5	0.40					
LBL	87.75	-14.00	-40.75					Laser separation		
Exact	0.00	0.00	0.00				<i>Not on vehicle</i>			
Paro	44.00	22.00	18.75							
Altimeter	61.00	-14.50	36.25							
SM2000/Transmit-Forward	106.25	-13.50	29.50							
SM2000/Receive-Forward	101.75	-1.50	30.00							
SM2000/Transmit-Down	106	-1.5	38.25							
SM2000/Receive-Down	105.50	-1.50	33.75							
SM2000 Rotator Axis (Port)	101.75	-19.50	33.75							
DOP	75.00	1.00	36.25							
RLG	0.00	0.00	0.00				<i>Not on vehicle</i>			
SBP	0.00	0.00	0.00				<i>Not on vehicle</i>			
Sonardyne	0.00	0.00	0.00				<i>Not on vehicle</i>			

Measured With Respect to a Ref. Point

Sensor	X	Y	Z	Ref. Point
ESC	0.00	0.00	0.00	
3Chip	0.00	0.00	0.00	
IMA	-10.00	3.00	17.38	
LBL	11.00	-1.50	-19.00	I
Exact	0.00	0.00	0.00	
Paro	3.50	1.50	-3.50	H
Altimeter	-9.75	6.00	12.00	F
SM2000/Transmit- Forward	4.50	6.00	-4.25	Rot. Axis.
SM2000/Receive-Forward	0.00	18.00	-3.75	Rot. Axis.
SM2000/Transmit-Down	4.25	18.00	4.50	Rot. Axis.
SM2000/Receive-Down	3.75	18.00	0.00	Rot. Axis.
SM2000 Rotator Axis (Port)	31	1	9.5	F
DOP	4.25	21.50	12.00	F
RLG	0.00	0.00	0.00	
SBP	0.00	0.00	0.00	
Sonardyne	0.00	0.00	0.00	

Ref. Points With Respect to Tether Strain Relief Bolt

Ref Point	X	Y	Z
A	1.50	-17.75	0.00
B	0.00	-19.25	14.25
C	1.50	17.75	0.00
D	0.00	19.25	14.25
E	40.50	-20.50	22.25
F	70.75	-20.50	24.25
G	70.75	20.50	24.25
H	40.50	20.50	22.25
I	76.75	-12.50	-21.75

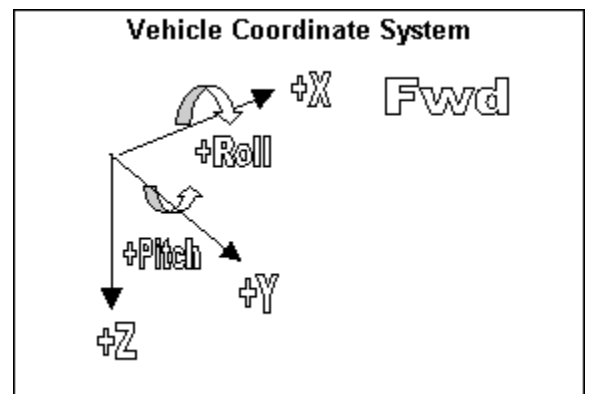
Directions:

- 1) Measure the coordinates of the reference points if not already given / specified
- 2) Then measure the coord. Of each sensor with respect to a reference point
- 3) For each sensor add up these two and the result will be the coordinates of the sensor with respect to the vehicle coordinate origin

Forward Looking Configuration

All linear measurements in inches

All angular measurements in degrees



SM2000/Imaging Measure Point: Top of top metal edge along center line
 SM2000/Profiling Measure Point: Top of top metal edge along center line

JASON Sensor Measurements

Lowering: JAS-284

Date: 7/29/00

Vehicle origin is forward bolt, bottom of "tether strain relief"

Sensor	X	Y	Z	Pitch	Roll	Yaw	Comments	Vehicle Tilts	Pitch	Roll
ESC	0.00	0.00	0.00	0.0	0.0		<i>Not on vehicle</i>	JASON sensor values	0.4	2.6
3Chip	0.00	0.00	0.00				<i>Not on vehicle</i>	Protractor/Level values	0.2	-0.5
IMA	0.00	0.00	0.00	0.00	0.00		<i>Not on vehicle</i>			
LBL	87.75	-14.00	-40.75					Laser separation		
Exact	0.00	0.00	0.00				<i>Not on vehicle</i>			
Paro	44.00	22.00	18.75							
Altimeter	61.00	-14.50	36.25							
SM2000/Transmit- Brow	97.75	0.50	-18.75							
SM2000/Receive-Brow	93.75	0.50	-30.75							
DOP	75.00	1.00	36.25							
RLG	0.00	0.00	0.00				<i>Not on vehicle</i>			
SBP	0.00	0.00	0.00				<i>Not on vehicle</i>			
Sonardyne	0.00	0.00	0.00				<i>Not on vehicle</i>			

Measured With Respect to a Ref. Point

Sensor	X	Y	Z	Ref. Point
ESC	0.00	0.00	0.00	
3Chip	0.00	0.00	0.00	
IMA	-10.00	3.00	17.38	
LBL	11.00	-1.50	-19.00	I
Exact	0.00	0.00	0.00	
Paro	3.50	1.50	-3.50	H
Altimeter	-9.75	6.00	12.00	F
SM2000/Transmit- Brow	27.00	21.00	-43.00	F
SM2000/Receive-Brow	-4.00	0.00	-12.00	Transmit head
DOP	4.25	21.50	12.00	F
RLG	0.00	0.00	0.00	
SBP	0.00	0.00	0.00	
Sonardyne	0.00	0.00	0.00	

Ref. Points With Respect to Tether Strain Relief Bolt

Ref Point	X	Y	Z
A	1.50	-17.75	0.00
B	0.00	-19.25	14.25
C	1.50	17.75	0.00
D	0.00	19.25	14.25
E	40.50	-20.50	22.25
F	70.75	-20.50	24.25
G	70.75	20.50	24.25
H	40.50	20.50	22.25
I	76.75	-12.50	-21.75

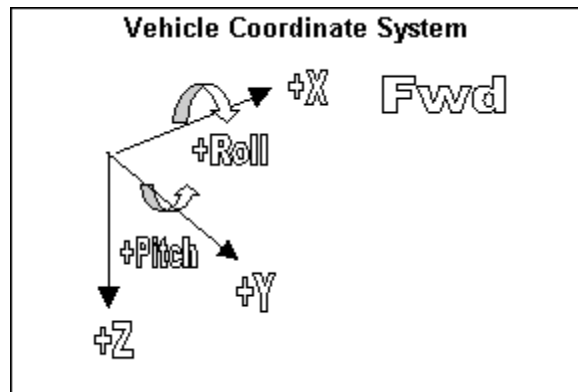
Directions:

- 1) Measure the coordinates of the reference points if not already given / specified
- 2) Then measure the coord. Of each sensor with respect to a reference point
- 3) For each sensor add up these two and the result will be the coordinates of the sensor with respect to the vehicle coordinate origin

Forward Looking Configuration

All linear measurements in inches

All angular measurements in degrees



SM2000/Imaging Measure Point: Top of top metal edge along center line

SM2000/Profiling Measure Point: Top of top metal edge along center line

**TN114 Data To WHOI Archives List
July 2000**

Item	Description	Id	<u>Date Sent To Archives</u>
1 Box	50 Hi8 Archive Tapes - Hi8-001-A --> Hi8-050-A	TN114-01	
1 Box	50 Hi8 Archive Tapes - Hi8-051-A --> Hi8-100-A	TN114-02	
1 Box	50 Hi8 Archive Tapes - Hi8-100-A --> Hi8-150-A	TN114-03	
1 Box	2 Rolls 35mm Film - TN114 JASON Film - undeveloped		
	1 CD - TN098 JASON Data		
	1 Science Notebook - TN098 Real Time Navigation Log		

Event Log

Vent Imaging Pacific (VIP) 2000 Cruise

Main Endeavor Vent Field

R/V Thomas G. Thompson

21-31 July 2000

Notes:

- (1) Altitude readings are 30 m or less; a steady value of 30 indicates that the bottom was not detected by the altimeter.
- (2) Navigation data was not captured by the event log system until 08:00 on 7/23/00.
- (3) The event logs have been formatted for ease of reading but have not been edited.

Event Log VIP 2000 Cruise 7/23/00									
	Date	Time (GMT)	x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/23	2:11:53	DLG	-99999.99	-99999.99	Unknown	0.851	0	289.927° VID_GRAB,,
EVT	00/07/23	2:40:36	DLG	-99999.99	-99999.99	Unknown	0.789	30	68.518° winch reads -5m at surface,,
EVT	00/07/23	2:56:45	DLG	-99999.99	-99999.99	Unknown	170.517	30	34.561° My first log---Ravi,,
EVT	00/07/23	3:18:09	DLG	-99999.99	-99999.99	Unknown	435.822	30	12.750° VID_GRAB ,First one...;-),
EVT	00/07/23	3:34:50	DLG	-99999.99	-99999.99	Unknown	679.105	30	8.958° Jason got wet---Darryl Jackson,,
EVT	00/07/23	4:06:34	DLG	-99999.99	-99999.99	Unknown	1212.448	30	16.236° Still going down...1207.81....,,
EVT	00/07/23	4:06:42	DLG	-99999.99	-99999.99	Unknown	1214.707	30	16.191° to go,,
EVT	00/07/23	4:06:57	DLG	-99999.99	-99999.99	Unknown	1219.112	30	16.169° ignore the previous one....,,
EVT	00/07/23	4:20:21	DLG	-99999.99	-99999.99	Unknown	1438.565	30	46.372° Still a long way to go....,,
EVT	00/07/23	4:53:48	DLG	-99999.99	-99999.99	Unknown	1960.068	30	346.039° The water is getting smokey...about 1920 m water depth,,
EVT	00/07/23	4:56:33	DLG	-99999.99	-99999.99	Unknown	2002.525	7.8	310.279° Possible detection of a bottom on SM 2000 sonor,,
EVT	00/07/23	4:57:31	DLG	-99999.99	-99999.99	Unknown	2011.725	13.1	311.805°
EVT	00/07/23	4:57:31	DLG	-99999.99	-99999.99	Unknown	2011.725	30	311.583°
EVT	00/07/23	4:57:31	DLG	-99999.99	-99999.99	Unknown	2011.725	30	311.583°
EVT	00/07/23	4:57:31	DLG	-99999.99	-99999.99	Unknown	2011.725	30	311.583°
EVT	00/07/23	4:57:31	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:31	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:31	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:31	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:32	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:32	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:32	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:32	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:32	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.648°
EVT	00/07/23	4:57:32	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.713°
EVT	00/07/23	4:57:32	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.713°
EVT	00/07/23	4:57:32	DLG	-99999.99	-99999.99	Unknown	2011.923	30	311.713°
EVT	00/07/23	4:58:28	DLG	-99999.99	-99999.99	Unknown	2020.256	30	307.813° Getting more smokey...2020 m
EVT	00/07/23	5:00:40	DLG	-99999.99	-99999.99	Unknown	2044.251	30	294.206° Almost zero visibility on Pan & Tilt camera
EVT	00/07/23	5:01:00	DLG	-99999.99	-99999.99	Unknown	2044.445	27.7	294.212° SM2000 bottom to west at 150m range
EVT	00/07/23	5:03:49	DLG	-99999.99	-99999.99	Unknown	2069.533	6.6	282.822° Visibility has improved a bit....2068m
EVT	00/07/23	5:07:04	DLG	-99999.99	-99999.99	Unknown	2096.293	30	262.328° Approaching 30m east of Salut...moving west ward to Salut
EVT	00/07/23	5:08:17	DLG	-99999.99	-99999.99	Unknown	2109.655	30	261.236° Visibility increasing...now it is almost comparable to earlier....2109m,
EVT	00/07/23	5:08:43	DLG	-99999.99	-99999.99	Unknown	2111.391	30	257.842° VID_GRAB,
EVT	00/07/23	5:10:50	DLG	-99999.99	-99999.99	Unknown	2122.386	30	258.088° About 100m to go,
EVT	00/07/23	5:13:05	DLG	-99999.99	-99999.99	Unknown	2146.270	30	249.148° Saw something like a shrimp....2145,
EVT	00/07/23	5:15:24	DLG	-99999.99	-99999.99	Unknown	2161.210	30	244.745° Getting smokey again...2160m,
EVT	00/07/23	5:16:29	DLG	-99999.99	-99999.99	Unknown	2173.357	30	42.583° 30m to go...we see some life out there,
EVT	00/07/23	5:18:23	DLG	-99999.99	-99999.99	Unknown	2181.107	13.6	92.307° Able to see Jason from Medea,
EVT	00/07/23	5:20:51	DLG	-99999.99	-99999.99	Unknown	2202.510	6.2	150.346° There it is Bottom..Touch down,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/23	5:26:46	DLG	-99999.99	-99999.99	Unknown	2205.809	2.4	115.891°	Over Pillow lava flows,
EVT	00/07/23	5:30:35	DLG	-99999.99	-99999.99	Unknown	2207.142	2.2	279.800°	Site-Salut,I see a small
EVT	00/07/23	5:30:54	DLG	-99999.99	-99999.99	Unknown	2204.793	5	268.429°	fish...shiny Site-Salut,VID_GRAB
EVT	00/07/23	5:31:03	DLG	-99999.99	-99999.99	Unknown	2204.453	5.1	238.258°	Site-Salut,Shiny fish
EVT	00/07/23	5:31:57	DLG	-99999.99	-99999.99	Unknown	2202.346	6.2	279.497°	Site-Salut,See a wall sort of a thing
EVT	00/07/23	5:32:06	DLG	-99999.99	-99999.99	Unknown	2202.133	6.2	277.932°	Site-Salut,Pillow lava flows
EVT	00/07/23	5:33:52	DLG	-99999.99	-99999.99	Unknown	2200.475	7.6	271.823°	Site-Salut,see some plant life
EVT	00/07/23	5:33:56	DLG	-99999.99	-99999.99	Unknown	2200.602	6.8	272.162°	Site-Salut,like weeds
EVT	00/07/23	5:34:15	DLG	-99999.99	-99999.99	Unknown	2201.410	6	271.976°	Site-Salut,There is diffuse flow here,
EVT	00/07/23	5:34:24	DLG	-99999.99	-99999.99	Unknown	2200.131	2.9	251.141°	Site-Salut,See a spider crab,
EVT	00/07/23	5:34:56	DLG	-99999.99	-99999.99	Unknown	2200.000	2.7	254.784°	Site-Salut,See tubeworms,
EVT	00/07/23	5:35:29	DLG	-99999.99	-99999.99	Unknown	2201.987	1.1	269.916°	Site-Salut,VID_GRAB,spider crab
EVT	00/07/23	5:36:46	DLG	-99999.99	-99999.99	Unknown	2200.366	1.7	316.999°	Site-Salut,VID_GRAB,beauty
EVT	00/07/23	5:37:10	DLG	-99999.99	-99999.99	Unknown	2199.523	2.1	316.489°	Site-Salut,VID_GRAB,another spider crab
EVT	00/07/23	5:37:38	DLG	-99999.99	-99999.99	Unknown	2198.604	3	296.829°	Site-Salut,a big patch of something,
EVT	00/07/23	5:37:55	DLG	-99999.99	-99999.99	Unknown	2197.907	3.5	345.473°	Site-Salut,VID_GRAB,another crab
EVT	00/07/23	5:38:10	DLG	-99999.99	-99999.99	Unknown	2197.453	4	339.035°	Site-Salut,VID_GRAB,a lava pillow
EVT	00/07/23	5:38:21	DLG	-99999.99	-99999.99	Unknown	2197.603	3.6	285.016°	Site-Salut,or is it piller,
EVT	00/07/23	5:38:34	DLG	-99999.99	-99999.99	Unknown	2196.044	4.9	269.311°	Site- Salut,VID_GRAB,something
EVT	00/07/23	5:39:19	DLG	-99999.99	-99999.99	Unknown	2192.257	8.6	303.722°	Site-Salut,See smoke,
EVT	00/07/23	5:39:30	DLG	-99999.99	-99999.99	Unknown	2192.870	7	303.338°	Site-Salut,VID_GRAB,smoke
EVT	00/07/23	5:39:49	DLG	-99999.99	-99999.99	Unknown	2193.352	6.6	294.582°	Site-Salut,VID_GRAB,
EVT	00/07/23	5:40:31	DLG	-99999.99	-99999.99	Unknown	2192.928	6.3	282.990°	Site-Salut,black somkers,
EVT	00/07/23	5:40:35	DLG	-99999.99	-99999.99	Unknown	2192.861	6.3	284.868°	Site-Salut,VID_GRAB,black somkers
EVT	00/07/23	5:41:04	DLG	-99999.99	-99999.99	Unknown	2193.341	5.5	269.489°	Site-Salut,VID_GRAB,another one
EVT	00/07/23	5:41:14	DLG	-99999.99	-99999.99	Unknown	2193.248	5.2	270.163°	Site-Salut,I mean a frame,
EVT	00/07/23	5:43:02	DLG	-99999.99	-99999.99	Unknown	2194.993	4.4	230.785°	Site-Salut,VID_GRAB,some more tube worm
EVT	00/07/23	5:43:26	DLG	-99999.99	-99999.99	Unknown	2196.138	2.7	262.794°	Site-Salut,VID_GRAB,closer
EVT	00/07/23	5:45:51	DLG	-99999.99	-99999.99	Unknown	2190.405	4	261.075°	Site-Salut,VID_GRAB,closer
EVT	00/07/23	5:47:26	DLG	-99999.99	-99999.99	Unknown	2192.378	3.2	231.729°	Site-Salut,VID_GRAB,crab
EVT	00/07/23	5:48:58	DLG	-99999.99	-99999.99	Unknown	2191.664	3.8	352.817°	Site-Salut,VID_GRAB,another smoker
EVT	00/07/23	5:49:22	DLG	-99999.99	-99999.99	Unknown	2192.383	3.3	342.926°	Site-Salut,, PLUME
EVT	00/07/23	5:50:56	DLG	-99999.99	-99999.99	Unknown	2189.995	3.5	330.568°	Site-Salut,VID_GRAB,small one
EVT	00/07/23	5:51:24	DLG	-99999.99	-99999.99	Unknown	2188.610	4.6	329.717°	Site-Salut,VID_GRAB,see on top
EVT	00/07/23	5:51:38	DLG	-99999.99	-99999.99	Unknown	2187.672	4.5	331.259°	Site-Salut,VID_GRAB,good one
EVT	00/07/23	5:51:50	DLG	-99999.99	-99999.99	Unknown	2187.741	4	331.837°	Site-Salut,VID_GRAB,see a lot of them
EVT	00/07/23	5:52:42	DLG	-99999.99	-99999.99	Unknown	2188.781	3.3	12.931°	Site-Salut,VID_GRAB,another small group of smokers....
EVT	00/07/23	5:52:57	DLG	-99999.99	-99999.99	Unknown	2188.528	3.6	15.018°	Site-Salut,VID_GRAB,getting intenes
EVT	00/07/23	5:52:59	DLG	-99999.99	-99999.99	Unknown	2188.315	3.7	16.284°	Site-Salut,intense,

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EVT	00/07/23	5:53:33	DLG	-99999.99	-99999.99	Unknown	2187.896	3.3	5.267°	Site-Salut,VID_GRAB,see a fish too
EVT	00/07/23	5:53:44	DLG	-99999.99	-99999.99	Unknown	2187.303	3.8	14.946°	Site-Salut,strong smokers here,
EVT	00/07/23	5:54:14	DLG	-99999.99	-99999.99	Unknown	2187.243	4.2	359.083°	Site-Salut,VID_GRAB,
EVT	00/07/23	5:54:57	DLG	-99999.99	-99999.99	Unknown	2181.805	11.1	35.235°	Site-Salut,its smokey out here,
EVT	00/07/23	5:55:41	DLG	-99999.99	-99999.99	Unknown	2186.019	5.2	63.120°	Site-Salut,VID_GRAB,bigger ones
EVT	00/07/23	5:59:36	DLG	-99999.99	-99999.99	Unknown	2186.161	6.8	88.914°	Site-Salut,VID_GRAB,another one
EVT	00/07/23	6:00:30	DLG	-99999.99	-99999.99	Unknown	2186.972	5	18.117°	Site-Salut,VID_GRAB,one more frame
EVT	00/07/23	6:03:48	DLG	-99999.99	-99999.99	Unknown	2191.446	7.5	275.653°	Site-Salut,Moving south from central black smoker complex,
EVT	00/07/23	6:03:59	DLG	-99999.99	-99999.99	Unknown	2191.553	7.6	261.229°	Site-Salut,VID_GRAB,
EVT	00/07/23	6:05:26	DLG	-99999.99	-99999.99	Unknown	2189.469	7.7	214.657°	Site-Salut,VID_GRAB,
EVT	00/07/23	6:06:18	DLG	-99999.99	-99999.99	Unknown	2191.950	5.7	221.537°	Site-Salut,VID_GRAB,
EVT	00/07/23	6:13:30	DLG	-99999.99	-99999.99	Unknown	2195.693	5.8	288.922°	Site-Salut,Moving south ..over sulphites and tube worms,
EVT	00/07/23	6:13:39	DLG	-99999.99	-99999.99	Unknown	2195.106	5.8	288.194°	Site-Salut,dead tube worms,
EVT	00/07/23	6:19:14	DLG	-99999.99	-99999.99	Unknown	2194.450	2.7	273.201°	VID_GRAB,,
EVT	00/07/23	6:21:09	DLG	-99999.99	-99999.99	Unknown	2194.312	1.8	324.635°	Seeting up to move northward along the west side of Salut,,
EVT	00/07/23	6:21:34	DLG	-99999.99	-99999.99	Unknown	2193.242	1.7	325.131°	In fractured sheet and lobate flows,,
EVT	00/07/23	6:21:38	DLG	-99999.99	-99999.99	Unknown	2193.002	1.9	326.966°	VID_GRAB,,
EVT	00/07/23	6:23:53	DLG	-99999.99	-99999.99	Unknown	2188.604	3.8	357.686°	VID_GRAB,crab
EVT	00/07/23	6:26:30	DLG	-99999.99	-99999.99	Unknown	2188.406	2.5	77.828°	VID_GRAB,
EVT	00/07/23	6:26:35	DLG	-99999.99	-99999.99	Unknown	2188.227	2.6	76.603°	shimmering water,
EVT	00/07/23	6:26:40	DLG	-99999.99	-99999.99	Unknown	2188.293	2.5	77.862°	with a little smoke,
EVT	00/07/23	6:26:46	DLG	-99999.99	-99999.99	Unknown	2188.740	2.2	79.141°	VID_GRAB,
EVT	00/07/23	6:26:57	DLG	-99999.99	-99999.99	Unknown	2188.580	2.4	75.926°	best we have seen so far,
EVT	00/07/23	6:27:24	DLG	-99999.99	-99999.99	Unknown	2188.513	4.1	111.507°	VID_GRAB,
EVT	00/07/23	6:28:33	DLG	-99999.99	-99999.99	Unknown	2188.528	3.5	155.933°	VID_GRAB,
EVT	00/07/23	6:28:58	DLG	-99999.99	-99999.99	Unknown	2187.550	4.6	155.949°	VID_GRAB,
EVT	00/07/23	6:30:23	DLG	-99999.99	-99999.99	Unknown	2187.699	4	157.481°	we are to the west of Salut,
EVT	00/07/23	6:30:29	DLG	-99999.99	-99999.99	Unknown	2187.752	3.9	157.639°	VID_GRAB,
EVT	00/07/23	6:30:38	DLG	-99999.99	-99999.99	Unknown	2187.488	4.7	156.889°	look at the shiny water,
EVT	00/07/23	6:33:35	DLG	-99999.99	-99999.99	Unknown	2184.971	7.8	158.308°	getting ready to fire an acoustic image,
EVT	00/07/23	6:34:05	DLG	-99999.99	-99999.99	Unknown	2181.185	12.3	156.879°	moving away from the plume for acoustic,
EVT	00/07/23	6:34:10	DLG	-99999.99	-99999.99	Unknown	2181.711	11.2	154.646°	imaging,
EVT	00/07/23	6:36:06	DLG	-99999.99	-99999.99	Unknown	2185.174	7.5	141.213°	we got it targeted on the plume...,
EVT	00/07/23	6:36:09	DLG	-99999.99	-99999.99	Unknown	2185.221	7.5	141.380°	ready to fire sonor
EVT	00/07/23	6:37:09	DLG	-99999.99	-99999.99	Unknown	2184.921	8.9	156.009°	heading 159 at a alti of 8.8m and hovering manually
EVT	00/07/23	6:37:23	DLG	-99999.99	-99999.99	Unknown	2187.025	6.6	168.186°	by facing chimney with the diffuse flow
EVT	00/07/23	6:43:13	DLG	-99999.99	-99999.99	Unknown	2187.489	6.4	166.400°	we are having a problem keeping the vehicle steady for sonor recoding
EVT	00/07/23	6:44:57	DLG	-99999.99	-99999.99	Unknown	2187.648	6.1	166.690°	VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/23	6:48:12	DLG	-99999.99	-99999.99	Unknown	2187.735	5.8	162.194°	VID_GRAB
EVT	00/07/23	6:48:21	DLG	-99999.99	-99999.99	Unknown	2186.579	6.6	157.813°	some lige
EVT	00/07/23	6:48:24	DLG	-99999.99	-99999.99	Unknown	2186.698	6.5	157.827°	life
EVT	00/07/23	6:54:35	DLG	-99999.99	-99999.99	Unknown	2186.767	6.2	158.837°	recording data
EVT	00/07/23	6:54:46	DLG	-99999.99	-99999.99	Unknown	2186.748	5.8	159.396°	we are probably 16m from the target
EVT	00/07/23	6:54:53	DLG	-99999.99	-99999.99	Unknown	2186.701	5.1	158.891°	target I mean
EVT	00/07/23	6:59:30	DLG	-99999.99	-99999.99	Unknown	2186.774	7.5	159.920°	The mode of navigation is manually flying, auto depth, auto heading
EVT	00/07/23	6:59:57	DLG	-99999.99	-99999.99	Unknown	2186.770	7.4	158.909°	took a burst ping
EVT	00/07/23	7:00:08	DLG	-99999.99	-99999.99	Unknown	2186.770	7.4	158.909°	recording the second one
EVT	00/07/23	7:02:28	DLG	-99999.99	-99999.99	Unknown	2186.777	6.7	159.053°	ok we keep going around
EVT	00/07/23	7:04:01	DLG	-99999.99	-99999.99	Unknown	2186.790	6.1	106.036°	we are at the highest point in this area
EVT	00/07/23	7:04:06	DLG	-99999.99	-99999.99	Unknown	2186.797	5.9	106.351°	VID_GRAB
EVT	00/07/23	7:04:35	DLG	-99999.99	-99999.99	Unknown	2186.850	6.4	124.282°	VID_GRAB
EVT	00/07/23	7:11:28	DLG	-99999.99	-99999.99	Unknown	2184.733	8	17.935°	VID_GRAB
EVT	00/07/23	7:14:42	DLG	-99999.99	-99999.99	Unknown	2185.208	8.2	58.504°	unwinding some twists in the cable...
EVT	00/07/23	7:14:54	DLG	-99999.99	-99999.99	Unknown	2184.995	7.5	51.283°	Tether
EVT	00/07/23	7:19:27	DLG	-99999.99	-99999.99	Unknown	2187.120	0.9	114.771°	tape change
EVT	00/07/23	7:20:56	DLG	-99999.99	-99999.99	Unknown	2187.054	0.9	114.016°	sitting on ledge
EVT	00/07/23	7:23:05	DLG	-99999.99	-99999.99	Unknown	2187.125	0.9	109.341°	approximately 2 metres shallower than hovering during ensonification
EVT	00/07/23	7:24:38	DLG	-99999.99	-99999.99	Unknown	2187.167	0.9	108.862°	data logging watch change
EVT	00/07/23	7:26:05	DLG	-99999.99	-99999.99	Unknown	2187.128	0.9	108.513°	positioned for ensonification of diffuse flow and black smokers
EVT	00/07/23	7:26:45	DLG	-99999.99	-99999.99	Unknown	2187.154	0.9	108.831°	within 2 metres of the depth of the vents (about 2m higher, looking down at vents)
EVT	00/07/23	7:27:49	DLG	-99999.99	-99999.99	Unknown	2187.128	0.9	108.593°	plan to ensonify while fixed and later while hovering
EVT	00/07/23	7:32:16	DLG	-99999.99	-99999.99	Unknown	2186.795	1.2	112.904°	perched on talus slope 16 metres to West of central smoker complex of Salut at 2 metres above vent height preparing to perform complete suite of sonar images
EVT	00/07/23	7:34:48	DLG	-99999.99	-99999.99	Unknown	2186.675	1.5	113.718°	recalibrating sonar
EVT	00/07/23	7:36:36	DLG	-99999.99	-99999.99	Unknown	2186.701	1.5	114.115°	adjusting ship's position to position Medea above JASON
EVT	00/07/23	7:38:35	DLG	-99999.99	-99999.99	Unknown	2186.888	1.5	113.384°	pinging sonar, not recording
EVT	00/07/23	7:39:26	DLG	-99999.99	-99999.99	Unknown	2186.801	1.2	113.669°	VID_GRAB,perched on talus slope
EVT	00/07/23	7:46:00	DLG	-99999.99	-99999.99	Unknown	2186.834	1.2	113.773°	VID_GRAB, black jelly fish
EVT	00/07/23	7:49:47	DLG	-99999.99	-99999.99	Unknown	2186.816	1.2	112.842°	identifying targets on sonar imaging,
EVT	00/07/23	7:50:05	DLG	-99999.99	-99999.99	Unknown	2186.284	0.8	153.850°	leaving talus slope to ground truth targets,
EVT	00/07/23	7:51:33	DLG	-99999.99	-99999.99	Unknown	2186.968	7.2	182.477°	confirmed looking straight ahead to smokers,
EVT	00/07/23	7:51:44	DLG	-99999.99	-99999.99	Unknown	2186.531	5.5	175.478°	smoker tailing off to left,
EVT	00/07/23	7:52:45	DLG	-99999.99	-99999.99	Unknown	2185.918	5.5	171.449°	attempting to reposition JASON on talus,

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EVT	00/07/23	7:59:35	DLG	-99999.99	-99999.99	Unknown	2186.963	6.6	231.291°	VID_GRAB, frame grab of target smoker
EVT	00/07/23	8:06:55	DLG	492560.27	5310387.32	Unknown	2187.367	9.8	135.436°	test of nav input,
EVT	00/07/23	8:08:27	DLG	492555.74	5310390.97	Unknown	2186.601	2.9	189.166°	attempting to reposition on talus slope,
EVT	00/07/23	8:09:55	DLG	492554.71	5310385.06	Unknown	2186.748	5.3	153.634°	ground truth target,
EVT	00/07/23	8:13:11	DLG	492547.16	5310380.30	Unknown	2185.936	5.8	117.928°	sonar target identified at 12 metres,
EVT	00/07/23	8:15:06	DLG	492537.79	5310389.65	Unknown	2185.480	1.8	126.084°	holding fixed on talus slope, vent dead ahead at 20 metres,
EVT	00/07/23	8:15:30	DLG	492534.61	5310388.02	Unknown	2185.461	1.6	125.966°	recalibrating sonar,
EVT	00/07/23	8:15:53	DLG	492539.26	5310389.85	Unknown	2185.538	1.4	125.764°	status clear for sonar imaging,
EVT	00/07/23	8:19:51	DLG	492540.57	5310388.47	Unknown	2185.505	2.1	123.638°	test sweep of sonar imaging,
EVT	00/07/23	8:22:10	DLG	492540.32	5310389.35	Unknown	2185.448	30	122.208°	stationary plume imaging P2 start 00G23003
EVT	00/07/23	8:29:51	DLG	492538.89	5310388.90	Unknown	2185.598	1.6	118.374°	possible sonar will image tether when scanning upwards
EVT	00/07/23	8:53:14	DLG	492538.50	5310390.25	Unknown	2185.487	1.9	106.898°	end recording 00G23003
EVT	00/07/23	8:54:52	DLG	492540.92	5310389.57	Unknown	2185.510	1.5	106.380°	recalibrating sonar
EVT	00/07/23	9:01:41	DLG	492539.81	5310390.65	Unknown	2185.583	1.5	103.189°	start recording stationary plume imaging P3 00G23004
EVT	00/07/23	9:05:43	DLG	492539.72	5310390.03	Unknown	2185.649	30	101.114°	tape change
EVT	00/07/23	9:18:53	DLG	492539.22	5310391.27	Unknown	2185.529	30	105.494°	lift off of perch
EVT	00/07/23	9:19:19	DLG	492539.94	5310389.38	Unknown	2184.671	1	145.271°	terminate recording
EVT	00/07/23	9:20:27	DLG	492540.20	5310389.71	Unknown	2185.144	0.9	148.878°	repositioned on talus slope
EVT	00/07/23	9:20:45	DLG	492537.25	5310390.63	Unknown	2184.691	0.9	141.947°	disregard last, still repositioning
EVT	00/07/23	9:21:37	DLG	492540.27	5310391.85	Unknown	2184.904	0.9	137.262°	repositioned on talus slope
EVT	00/07/23	9:22:37	DLG	492539.45	5310391.85	Unknown	2184.851	0.9	137.522°	recalibrating sonar
EVT	00/07/23	9:23:36	DLG	492540.61	5310391.50	Unknown	2184.298	1.6	141.384°	position destabilizing
EVT	00/07/23	9:23:45	DLG	492540.61	5310391.50	Unknown	2184.132	1.6	141.027°	repositioning
EVT	00/07/23	9:25:32	DLG	492541.10	5310392.59	Unknown	2183.705	1.5	137.233°	repositioned on talus slope
EVT	00/07/23	9:26:32	DLG	492528.85	5310391.26	Unknown	2183.712	1.3	136.766°	recalibrating
EVT	00/07/23	9:29:00	DLG	492540.60	5310393.08	Unknown	2183.653	1.3	136.471°	, PLUME, P3 start stationary plume sonar imaging 00G23005
EVT	00/07/23	9:29:36	DLG	492535.83	5310392.83	Unknown	2183.732	1.6	136.341°	getting strong Medea signal when imaging upward,,
EVT	00/07/23	9:45:33	DLG	492538.19	5310395.35	Unknown	2183.737	1.3	135.554°	end recording 00G23005,,
EVT	00/07/23	9:46:51	DLG	492539.82	5310393.96	Unknown	2183.690	1.3	136.349°	recalibrating,,
EVT	00/07/23	9:54:01	DLG	492539.43	5310394.61	Unknown	2183.777	0.9	137.159°	start recording P4 stationary sonar imaging 00G23006,,
EVT	00/07/23	9:56:40	DLG	492539.16	5310393.57	Unknown	2183.817	1.4	138.765°	lost position,,
EVT	00/07/23	9:56:47	DLG	492539.16	5310393.57	Unknown	2183.830	0.8	139.731°	terminate recording,,
EVT	00/07/23	9:57:14	DLG	492539.18	5310395.11	Unknown	2183.859	1.1	139.739°	restabilized position,,
EVT	00/07/23	9:57:38	DLG	492538.10	5310394.63	Unknown	2183.823	0.8	139.644°	recalibrating rotator,,
EVT	00/07/23	10:00:41	DLG	492537.61	5310395.09	Unknown	2183.837	0.8	138.739°	start recording P4 sonar imaging 00G23007 (repeat P4 recording due to destabilization of position),,
EVT	00/07/23	10:16:23	DLG	492538.00	5310395.00	Unknown	2183.957	0.7	134.196°	stopped recording,,
EVT	00/07/23	10:24:25	DLG	492537.53	5310394.46	Unknown	2183.979	0.7	135.834°	position temporarily destabilized,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/23	10:28:22	DLG	492539.06	5310394.17	Unknown	2183.972	0.8	136.150°	heading has drifted slightly,,
EVT	00/07/23	10:30:58	DLG	492539.15	5310393.82	Unknown	2184.013	0.8	135.612°	sonar head configuration adjusted,,
EVT	00/07/23	10:34:27	DLG	492538.26	5310395.33	Unknown	2183.952	0.8	133.883°	sonar head configuration ping rate mode adjusted from maximum (free running) to limited rate (Plume 1 and Diffuse 1) under Options, Setup, Head Configuration,,
EVT	00/07/23	10:38:30	DLG	492538.42	5310394.25	Unknown	2184.072	0.8	131.938°	tape change,,
EVT	00/07/23	10:46:26	DLG	492538.87	5310394.75	Unknown	2184.026	0.8	129.223°	recalibrating rotator,,
EVT	00/07/23	10:49:15	DLG	492538.20	5310394.23	Unknown	2184.026	0.8	128.185°	, DIFFUSE,start recording D6 00G23008 diffuse sonar imaging
EVT	00/07/23	10:54:13	DLG	492538.75	5310394.05	Unknown	2184.033	0.8	124.866°	stop recording,,
EVT	00/07/23	11:04:31	DLG	492544.23	5310397.17	Unknown	2183.986	3.1	186.108°	, DIFFUSE, start recording P1 hovering
EVT	00/07/23	11:06:26	DLG	492546.16	5310397.64	Unknown	2184.045	3.8	169.985°	changing heading from south to SSE,,
EVT	00/07/23	11:08:32	DLG	492546.55	5310396.85	Unknown	2184.039	3.8	166.086°	stop running ,,
EVT	00/07/23	11:09:24	DLG	492545.79	5310397.81	Unknown	2184.065	3.7	166.413°	P1 hovering was 00G23008,,
EVT	00/07/23	11:12:27	DLG	492545.71	5310397.74	Unknown	2184.112	3.7	165.947°	, DIFFUSE, start recording D1 00
EVT	00/07/23	11:12:58	DLG	492546.13	5310396.86	Unknown	2184.092	3.8	166.225°	was D1 00G009 ,,
EVT	00/07/23	11:13:34	DLG	492545.98	5310397.66	Unknown	2184.039	3.8	166.183°	heading EEW,,
EVT	00/07/23	11:13:55	DLG	492545.38	5310397.34	Unknown	2184.072	3.7	166.933°	Was SSW,,
EVT	00/07/23	11:24:16	DLG	492547.10	5310397.27	Unknown	2184.119	3.9	166.283°	the heading of D1 00G009 is SSE disregard other directions,,
EVT	00/07/23	11:27:13	DLG	492545.17	5310397.56	Unknown	2184.098	3.9	165.968°	heading changed to the south about 5 degrees,,
EVT	00/07/23	11:28:12	DLG	492544.78	5310398.63	Unknown	2184.097	4	165.856°	stop recording,,
EVT	00/07/23	11:48:43	DLG	492554.29	5310370.36	Unknown	2186.033	7.4	165.886°	moving-shifting from north to south side of salut,,
EVT	00/07/23	11:51:39	DLG	492554.61	5310365.52	Unknown	2185.798	3.3	165.223°	VID_GRAB, smokers,
EVT	00/07/23	11:59:06	DLG	492555.90	5310357.02	Unknown	2179.569	15.1	357.852°	getting in place to make a recording,,
EVT	00/07/23	12:01:14	DLG	492556.63	5310356.86	Unknown	2179.898	14.6	355.926°	at bottom of south position- turning around,,
EVT	00/07/23	12:11:40	DLG	492555.24	5310357.04	Unknown	2179.868	14.4	356.294°	setting sonar,,
EVT	00/07/23	12:16:08	DLG	492556.52	5310357.68	Unknown	2179.883	13.2	357.154°	, DIFFUSE,start recording D1 00G0010
EVT	00/07/23	12:16:39	DLG	492557.76	5310358.80	Unknown	2179.828	13.2	356.883°	moving towards salut vents,,
EVT	00/07/23	12:20:00	DLG	492558.53	5310367.10	Unknown	2179.797	11.5	357.176°	moving at 0.04 knt,,
EVT	00/07/23	12:23:34	DLG	492560.69	5310376.44	Unknown	2179.853	15.3	357.693°	VID_GRAB,plume,
EVT	00/07/23	12:24:05	DLG	492558.97	5310376.51	Unknown	2179.772	14.8	357.469°	over the plume,,
EVT	00/07/23	12:28:50	DLG	492562.30	5310383.50	Unknown	2179.784	16.3	357.354°	changing tapes,,
EVT	00/07/23	12:35:43	DLG	492565.52	5310397.23	Unknown	2179.974	18.5	356.059°	stop recording,,
EVT	00/07/23	12:36:15	DLG	492567.29	5310397.35	Unknown	2179.861	18.5	27.516°	turning around 180 degrees- looking back,,
EVT	00/07/23	12:38:22	DLG	492565.46	5310397.20	Unknown	2179.819	18.9	195.006°	general reset,,
EVT	00/07/23	12:40:06	DLG	492565.50	5310397.04	Unknown	2179.774	18.9	195.023°	looking south on the same line,,
EVT	00/07/23	12:48:22	DLG	492565.28	5310397.17	Unknown	2179.881	18.8	194.947°	, DIFFUSE, start recording D1 00G23011
EVT	00/07/23	12:49:04	DLG	492564.94	5310397.09	Unknown	2179.894	18.4	194.402°	moving south toward vents,,
EVT	00/07/23	12:50:42	DLG	492563.49	5310393.04	Unknown	2179.861	18.6	195.030°	moving 0.08 knts,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/23	12:51:04	DLG	492562.93	5310393.37	Unknown	2179.834	18.6	193.580°	holding position,,
EVT	00/07/23	12:53:11	DLG	492563.22	5310392.06	Unknown	2179.967	18.5	193.567°	moving forward,,
EVT	00/07/23	12:54:06	DLG	492562.63	5310388.68	Unknown	2179.868	18.4	194.019°	heading SSW (203 degrees),,
EVT	00/07/23	12:54:44	DLG	492561.31	5310385.37	Unknown	2179.874	15.7	194.650°	over the plume ,,
EVT	00/07/23	12:55:01	DLG	492559.91	5310384.64	Unknown	2179.721	16.2	193.499°	VID_GRAB, in the plume,
EVT	00/07/23	12:55:57	DLG	492559.62	5310382.47	Unknown	2179.794	16	193.526°	10 meter move complete,,
EVT	00/07/23	12:56:24	DLG	492559.25	5310383.66	Unknown	2179.834	16	193.358°	stop recording,,
EVT	00/07/23	12:58:05	DLG	492557.89	5310383.06	Unknown	2179.828	16.7	194.018°	moving SSW ,,
EVT	00/07/23	12:58:24	DLG	492558.65	5310380.80	Unknown	2179.781	16.3	194.136°	over thicker plume,,
EVT	00/07/23	13:00:53	DLG	492554.41	5310374.52	Unknown	2179.755	11.6	194.719°	altitude 16.6 meters,,
EVT	00/07/23	13:01:37	DLG	492555.76	5310374.76	Unknown	2179.865	11.4	194.408°	10 meters move complete,,
EVT	00/07/23	13:02:14	DLG	492556.33	5310373.82	Unknown	2179.794	11.2	194.364°	, DIFFUSE,start recording D1 00G23012
EVT	00/07/23	13:03:13	DLG	492555.73	5310373.14	Unknown	2179.885	13.5	195.239°	moving SSW,,
EVT	00/07/23	13:05:45	DLG	492551.46	5310364.74	Unknown	2179.756	9.4	194.451°	stop moving,,
EVT	00/07/23	13:07:05	DLG	492551.92	5310365.10	Unknown	2179.856	11.5	64.034°	stop recording,,
EVT	00/07/23	13:07:21	DLG	492554.29	5310364.77	Unknown	2179.770	11.1	27.379°	turning around 180 looking north,,
EVT	00/07/23	13:09:57	DLG	492551.86	5310365.90	Unknown	2179.823	11.4	19.789°	backing off 5 meters,,
EVT	00/07/23	13:11:07	DLG	492551.14	5310365.35	Unknown	2179.756	11.2	19.535°	recalibrate the sonar,,
EVT	00/07/23	13:20:00	DLG	492550.87	5310361.69	Unknown	2179.752	14	20.073°	, DIFFUSE,start recording 00G23012 hover
EVT	00/07/23	13:24:55	DLG	492549.97	5310361.62	Unknown	2179.819	14.2	20.149°	stop recording,,
EVT	00/07/23	13:25:40	DLG	492548.54	5310361.86	Unknown	2179.787	13.9	20.210°	on and off recording,,
EVT	00/07/23	13:25:48	DLG	492548.54	5310361.86	Unknown	2179.848	14	19.986°	stop recording,,
EVT	00/07/23	13:26:35	DLG	492550.12	5310361.94	Unknown	2179.828	14.3	19.712°	moving on to Milli-Q,,
EVT	00/07/23	13:27:38	DLG	492549.96	5310361.71	Unknown	2179.848	12.7	20.996°	reboot SM 2000,,
EVT	00/07/23	13:46:16	DLG	492600.04	5310437.26	Unknown	2193.883	4	21.304°	VID_GRAB, sting ray,
EVT	00/07/23	13:46:46	DLG	492600.04	5310437.26	Unknown	2193.942	3.7	20.399°	VID_GRAB,sting ray-closer,
EVT	00/07/23	13:48:56	DLG	492607.14	5310445.62	Unknown	2193.785	3.7	20.050°	arrived at Milli-Q,,
EVT	00/07/23	13:50:28	DLG	492613.03	5310444.84	Unknown	2193.604	3.8	31.506°	VID_GRAB,smokers,
EVT	00/07/23	13:56:04	DLG	492613.69	5310449.47	Unknown	2189.703	7.3	49.582°	VID_GRAB,top of Milli-Q,
EVT	00/07/23	13:59:31	DLG	492616.58	5310448.06	Unknown	2189.208	7	44.978°	VID_GRAB,black smokers at Milli-Q,
EVT	00/07/23	14:02:26	DLG	492615.32	5310449.05	Unknown	2189.414	6.2	44.713°	heading to east part of Milli-,
EVT	00/07/23	14:02:34	DLG	492616.67	5310449.05	Unknown	2189.328	6.3	44.821°	Milli-Q,,
EVT	00/07/23	14:15:36	DLG	492625.49	5310445.52	Unknown	2187.104	5.3	290.505°	over pillow lava south east of Milli-Q,,
EVT	00/07/23	14:18:49	DLG	492627.85	5310454.23	Unknown	2185.901	9.4	290.663°	heading to diffuse flow field north east of Milli-Q,,
EVT	00/07/23	14:26:35	DLG	492630.42	5310449.29	Unknown	2186.963	4.2	352.448°	setting up ,,
EVT	00/07/23	14:29:36	DLG	492630.95	5310450.21	Unknown	2187.194	4.2	353.833°	at diffuse flow field ,,
EVT	00/07/23	14:29:54	DLG	492630.94	5310449.38	Unknown	2187.107	4.1	353.317°	, DIFFUSE,
EVT	00/07/23	14:29:57	DLG	492630.94	5310449.38	Unknown	2187.147	4.3	352.977°	
EVT	00/07/23	14:29:59	DLG	492630.94	5310449.38	Unknown	2187.141	4.1	352.686°	
EVT	00/07/23	14:30:26	DLG	492630.90	5310449.82	Unknown	2187.154	4.1	352.934°	, DIFFUSE,start recording D1 0G23013
EVT	00/07/23	14:32:18	DLG	492630.39	5310450.37	Unknown	2187.081	3.9	351.847°	drifting back a little bit,,
EVT	00/07/23	14:33:02	DLG	492629.74	5310450.11	Unknown	2187.141	4.1	353.142°	stop recording,,
EVT	00/07/23	14:35:12	DLG	492630.58	5310450.03	Unknown	2187.160	3.9	351.628°	, DIFFUSE,start recording D1 00G23014

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/23	14:38:07	DLG	492630.35	5310450.15	Unknown	2187.161	4.1	353.078°	stop recording,,
EVT	00/07/23	14:39:27	DLG	492630.91	5310450.32	Unknown	2187.207	4	353.515°	setting sonar,,
EVT	00/07/23	14:42:48	DLG	492629.61	5310450.74	Unknown	2185.823	5.1	351.786°	moving 40 meters heading north,,
EVT	00/07/23	14:45:24	DLG	492629.67	5310451.13	Unknown	2179.458	11.1	353.359°	we were going 15 meters altitude before,,
EVT	00/07/23	14:48:46	DLG	492630.05	5310450.94	Unknown	2181.106	9.7	357.649°	general reset,,
EVT	00/07/23	14:48:54	DLG	492630.86	5310451.48	Unknown	2181.164	9.7	359.030°	gyro reset,,
EVT	00/07/23	14:49:07	DLG	492630.86	5310451.48	Unknown	2181.146	9.6	358.398°	not general one,,
EVT	00/07/23	14:50:12	DLG	492629.58	5310451.25	Unknown	2181.243	9.6	357.738°	moving 40 meters north north now-not before,,
EVT	00/07/23	14:50:36	DLG	492630.94	5310451.26	Unknown	2181.117	9.6	355.666°	, DIFFUSE,start recording D1 00G23015
EVT	00/07/23	14:59:15	DLG	492633.61	5310471.69	Unknown	2181.207	15.7	357.766°	change of logger-shashank,,
EVT	00/07/23	14:59:55	DLG	492633.28	5310473.90	Unknown	2181.207	15.5	357.402°	gone about halfway,,
EVT	00/07/23	15:03:39	DLG	492634.57	5310482.49	Unknown	2181.234	14.9	354.836°	nothing much appearing on screen,,
EVT	00/07/23	15:04:27	DLG	492635.26	5310484.69	Unknown	2181.234	15.3	354.888°	we got a slight current pushing us to the east,,
EVT	00/07/23	15:04:47	DLG	492635.84	5310484.85	Unknown	2181.300	15.4	354.430°	so we are not going due north,,
EVT	00/07/23	15:05:53	DLG	492635.51	5310488.24	Unknown	2181.288	15	356.451°	, PLUME,
EVT	00/07/23	15:05:54	DLG	492635.51	5310488.24	Unknown	2181.268	15	356.317°	
EVT	00/07/23	15:05:56	DLG	492635.51	5310488.24	Unknown	2181.390	14.9	356.507°	
EVT	00/07/23	15:05:57	DLG	492635.51	5310488.24	Unknown	2181.390	14.9	356.506°	
EVT	00/07/23	15:05:57	DLG	492635.51	5310488.24	Unknown	2181.390	14.9	356.570°	
EVT	00/07/23	15:06:27	DLG	492638.23	5310488.77	Unknown	2181.334	15	356.590°	ignore previous blank entries,,
EVT	00/07/23	15:06:59	DLG	492636.89	5310490.52	Unknown	2181.261	15.5	357.108°	looking for diffused flow- none found as yet,,
EVT	00/07/23	15:08:04	DLG	492637.72	5310492.84	Unknown	2181.290	16.1	356.560°	on the way from milliQ to S&M,
EVT	00/07/23	15:09:19	DLG	492637.95	5310496.90	Unknown	2181.191	16.1	355.410°	S&m is on the forward sonar...,
EVT	00/07/23	15:09:24	DLG	492637.95	5310496.90	Unknown	2181.283	16	355.989°	we're pretty close,
EVT	00/07/23	15:09:58	DLG	492639.06	5310497.83	Unknown	2181.256	16	356.368°	i meant forward sonar....,
EVT	00/07/23	15:11:11	DLG	492640.31	5310500.71	Unknown	2181.236	16.3	355.861°	the bottom's dropped away five feet from start,
EVT	00/07/23	15:11:22	DLG	492640.31	5310500.71	Unknown	2181.191	16.3	356.423°	not too shocking....,
EVT	00/07/23	15:11:34	DLG	492639.21	5310501.69	Unknown	2181.256	16.4	356.319°	end of transect....,
EVT	00/07/23	15:11:43	DLG	492639.21	5310501.69	Unknown	2181.223	16.3	356.182°	we'll do reciprocal of the bottom,
EVT	00/07/23	15:12:25	DLG	492639.49	5310501.17	Unknown	2180.452	17.1	355.420°	change of tape on the SM200(jaz tape),
EVT	00/07/23	15:13:56	DLG	492639.67	5310501.57	Unknown	2175.316	22	354.815°	worm like thing on P&T,
EVT	00/07/23	15:17:12	DLG	492638.38	5310514.86	Unknown	2188.909	8.2	167.649°	nothing appearing on screens....,
EVT	00/07/23	15:17:18	DLG	492638.38	5310514.86	Unknown	2189.828	7.5	173.355°	gyro reset!!,
EVT	00/07/23	15:18:16	DLG	492639.60	5310504.31	Unknown	2198.647	7.1	177.267°	going down....,
EVT	00/07/23	15:18:47	DLG	492639.57	5310503.75	Unknown	2202.896	3.3	175.128°	VID_GRAB,sea floor
EVT	00/07/23	15:19:25	DLG	492639.96	5310504.16	Unknown	2204.602	1.2	181.541°	VID_GRAB,diffuse flow--- shimmering water
EVT	00/07/23	15:19:49	DLG	492637.16	5310508.42	Unknown	2202.770	2.6	181.556°	does 2000 have to be looking down????? ,
EVT	00/07/23	15:20:07	DLG	492640.97	5310502.62	Unknown	2203.296	2.2	181.173°	decided yes...2000 facing forward,
EVT	00/07/23	15:20:45	DLG	492641.60	5310501.18	Unknown	2203.643	1.7	179.430°	crab on BRW,
EVT	00/07/23	15:22:05	DLG	492640.39	5310498.47	Unknown	2202.775	2	180.881°	VID_GRAB,looks like basalt
EVT	00/07/23	15:23:17	DLG	492639.31	5310496.51	Unknown	2201.866	2.7	180.575°	VID_GRAB,some scarp
EVT	00/07/23	15:25:13	DLG	492640.28	5310491.17	Unknown	2201.822	0.8	179.103°	VID_GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/23	15:25:42	DLG	492636.33	5310494.89	Unknown	2201.495	1.7	179.894°	can we slow medea a little bit...
EVT	00/07/23	15:25:54	DLG	492642.31	5310487.61	Unknown	2201.268	1.4	183.748°	its almost stopped (medea),
EVT	00/07/23	15:27:28	DLG	492640.03	5310484.09	Unknown	2202.125	1.6	180.409°	VID_GRAB,
EVT	00/07/23	15:28:07	DLG	492639.38	5310482.07	Unknown	2196.615	6.7	229.488°	sediment being blown away,
EVT	00/07/23	15:28:28	DLG	492641.10	5310483.15	Unknown	2195.196	8.1	268.118°	we're running along a scarp...kicking some dust :),
EVT	00/07/23	15:28:51	DLG	492637.77	5310486.40	Unknown	2194.018	2.5	242.933°	it was a fault scarp..,
EVT	00/07/23	15:29:24	DLG	492633.94	5310485.23	Unknown	2196.126	1.6	234.218°	that's an alvin weight!!,
EVT	00/07/23	15:29:31	DLG	492633.57	5310484.18	Unknown	2195.873	1.9	236.571°	VID_GRAB,alvin weight
EVT	00/07/23	15:30:55	DLG	492632.70	5310475.81	Unknown	2194.400	2.3	170.553°	we're over the ridge,
EVT	00/07/23	15:31:03	DLG	492632.70	5310475.81	Unknown	2193.840	2.6	171.408°	VID_GRAB,over ridge
EVT	00/07/23	15:32:29	DLG	492634.54	5310467.48	Unknown	2197.763	1.5	169.872°	VID_GRAB,looks like polykee (some spelling)
EVT	00/07/23	15:33:03	DLG	492634.03	5310466.57	Unknown	2196.591	2.8	200.158°	turning right,
EVT	00/07/23	15:34:25	DLG	492634.57	5310463.15	Unknown	2195.984	2.4	196.396°	VID_GRAB,vegetation
EVT	00/07/23	15:34:45	DLG	492629.57	5310466.44	Unknown	2196.397	1.7	194.731°	VID_GRAB,closer view
EVT	00/07/23	15:36:35	DLG	492632.53	5310460.25	Unknown	2192.782	3.9	186.993°	VID_GRAB,hot wataer
EVT	00/07/23	15:36:58	DLG	492634.38	5310459.74	Unknown	2191.963	5.8	184.813°	VID_GRAB,someone's experiment...some sample
EVT	00/07/23	15:37:42	DLG	492634.21	5310459.93	Unknown	2193.361	4.1	185.295°	VID_GRAB,sample for experiment
EVT	00/07/23	15:38:02	DLG	492634.64	5310460.02	Unknown	2193.220	4.3	185.412°	sample precariously placed....,
EVT	00/07/23	15:38:32	DLG	492634.46	5310460.00	Unknown	2192.508	4.9	208.964°	that was a gamma detector,
EVT	00/07/23	15:39:30	DLG	492635.86	5310462.51	Unknown	2190.864	7	178.290°	triangular tag DK1,
EVT	00/07/23	15:39:34	DLG	492635.86	5310462.51	Unknown	2191.309	6	184.780°	going south,
EVT	00/07/23	15:40:12	DLG	492635.80	5310457.01	Unknown	2193.427	1.5	241.927°	ther's other tag,
EVT	00/07/23	15:40:28	DLG	492635.80	5310457.01	Unknown	2192.841	2.3	251.436°	a couple of tags..one on right,
EVT	00/07/23	15:40:32	DLG	492636.53	5310456.30	Unknown	2192.848	3.6	253.227°	VID_GRAB,tags
EVT	00/07/23	15:41:07	DLG	492635.51	5310454.50	Unknown	2192.994	3	260.875°	triangulare tag 15,
EVT	00/07/23	15:42:25	DLG	492633.70	5310451.46	Unknown	2192.477	4.5	270.572°	VID_GRAB,
EVT	00/07/23	15:44:41	DLG	492629.70	5310450.08	Unknown	2190.788	2.6	260.097°	some more tube worms,
EVT	00/07/23	15:45:18	DLG	492631.16	5310447.94	Unknown	2192.555	3.7	274.245°	tube worms wrongly identified as vegetation some time ago,
EVT	00/07/23	15:45:28	DLG	492631.16	5310447.94	Unknown	2191.922	4.4	291.266°	VID_GRAB,tube worms
EVT	00/07/23	15:48:33	DLG	492624.38	5310447.46	Unknown	2188.272	6.3	29.056°	going up the formation...,
EVT	00/07/23	15:49:15	DLG	492622.18	5310445.86	Unknown	2189.777	4.6	336.589°	going south...to see how southern end of diffused flow looks like,
EVT	00/07/23	15:49:50	DLG	492619.79	5310445.88	Unknown	2191.656	3	7.772°	VID_GRAB,
EVT	00/07/23	15:50:59	DLG	492616.88	5310445.76	Unknown	2189.391	6.3	4.049°	we're getting into milliQ ,
EVT	00/07/23	15:51:28	DLG	492616.39	5310445.21	Unknown	2189.890	6	29.252°	we'd like to stay in bottom contact..tour S&M,
EVT	00/07/23	15:52:03	DLG	492616.03	5310448.26	Unknown	2187.400	7.7	43.297°	there's a smoker there,
EVT	00/07/23	15:52:14	DLG	492610.96	5310450.29	Unknown	2187.283	7.8	48.514°	VID_GRAB,milli Q-smoker
EVT	00/07/23	15:52:30	DLG	492611.95	5310454.24	Unknown	2187.566	7.6	50.620°	VID_GRAB,smoker- milliQ
EVT	00/07/23	15:52:56	DLG	492614.39	5310453.21	Unknown	2185.972	8	70.734°	VID_GRAB,experiment sample
EVT	00/07/23	15:53:08	DLG	492614.39	5310453.21	Unknown	2184.993	9.6	114.421°	lots of smoke,
EVT	00/07/23	15:53:48	DLG	492614.98	5310457.12	Unknown	2179.185	15.9	157.102°	starting to go north towards S&M,
EVT	00/07/23	15:54:20	DLG	492613.46	5310457.90	Unknown	2176.331	17.2	158.128°	going thru smoke,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/23	15:55:34	DLG	492614.99	5310448.09	Unknown	2186.826	7.7	133.580°	11m altitude..,
EVT	00/07/23	15:55:43	DLG	492614.99	5310448.09	Unknown	2188.530	5.2	145.924°	heading north,
EVT	00/07/23	15:56:53	DLG	492623.99	5310446.75	Unknown	2189.375	3.8	66.809°	VID_GRAB,,
EVT	00/07/23	15:57:29	DLG	492623.69	5310450.16	Unknown	2188.537	1.8	68.676°	there's a rise and there's the top,,
EVT	00/07/23	15:57:45	DLG	492623.69	5310450.16	Unknown	2188.723	1.4	65.528°	, DIFFUSE,
EVT	00/07/23	15:57:58	DLG	492626.68	5310450.94	Unknown	2189.469	30	69.466°	, DIFFUSE, shimmering water
EVT	00/07/23	15:58:51	DLG	492632.46	5310456.75	Unknown	2190.680	3.5	68.888°	some fish....,
EVT	00/07/23	15:59:33	DLG	492632.93	5310457.95	Unknown	2193.178	1.4	81.309°	VID_GRAB, formation..,
EVT	00/07/23	16:00:01	DLG	492631.36	5310457.67	Unknown	2192.485	2.3	80.607°	remnants of a chimney,,
EVT	00/07/23	16:00:22	DLG	492632.97	5310458.27	Unknown	2193.763	1.2	59.231°	crab,,
EVT	00/07/23	16:01:28	DLG	492631.01	5310464.37	Unknown	2193.151	2.5	25.545°	gyro reset,,
EVT	00/07/23	16:02:13	DLG	492630.09	5310468.45	Unknown	2194.948	0.8	41.096°	sulphide matter on the seafloor- probably fallout from plume,,
EVT	00/07/23	16:02:26	DLG	492630.09	5310468.45	Unknown	2195.401	30	29.038°	VID_GRAB, broken tube,
EVT	00/07/23	16:04:25	DLG	492633.11	5310474.03	Unknown	2196.565	2.7	46.147°	crab,,
EVT	00/07/23	16:05:26	DLG	492637.15	5310477.91	Unknown	2195.819	3.6	76.921°	VID_GRAB, fossilised chimney,
EVT	00/07/23	16:05:42	DLG	492638.24	5310478.53	Unknown	2197.523	2.4	43.498°	changing tapes soon....,
EVT	00/07/23	16:06:31	DLG	492636.77	5310488.25	Unknown	2201.392	2	334.113°	big long wall,,
EVT	00/07/23	16:07:07	DLG	492638.88	5310487.89	Unknown	2196.239	6	316.800°	we've come up 3m already....,
EVT	00/07/23	16:07:18	DLG	492639.08	5310487.85	Unknown	2195.420	7.2	293.542°	wall still carrying on.,
EVT	00/07/23	16:09:54	DLG	492633.47	5310498.21	Unknown	2196.114	1.2	26.212°	fresh flow,
EVT	00/07/23	16:12:26	DLG	492639.40	5310504.78	Unknown	2193.324	11.4	293.069°	4min gap in video,
EVT	00/07/23	16:13:02	DLG	492637.00	5310507.90	Unknown	2196.773	1	354.223°	fish ,
EVT	00/07/23	16:14:05	DLG	492634.91	5310510.97	Unknown	2195.754	1.2	39.140°	crabs,
EVT	00/07/23	16:15:09	DLG	492636.46	5310515.06	Unknown	2196.241	0.8	71.092°	sea trash,
EVT	00/07/23	16:15:24	DLG	492636.46	5310515.06	Unknown	2196.274	0.7	60.172°	its a marjker / or trash,
EVT	00/07/23	16:15:54	DLG	492636.31	5310514.99	Unknown	2195.016	1.9	14.444°	its a peice of plastic trash,
EVT	00/07/23	16:16:19	DLG	492634.78	5310516.16	Unknown	2194.782	2	357.735°	in pillar flows at upper edge of wall,
EVT	00/07/23	16:16:43	DLG	492633.55	5310517.52	Unknown	2195.823	1.1	6.230°	...in pillare flows with brown sediment,
EVT	00/07/23	16:17:32	DLG	492633.55	5310517.52	Unknown	2195.670	1	25.486°	VID_GRAB, weight
EVT	00/07/23	16:18:12	DLG	492630.45	5310521.98	Unknown	2195.544	0.8	19.805°	crab on rock,
EVT	00/07/23	16:18:28	DLG	492630.45	5310521.98	Unknown	2195.082	1.4	49.815°	another alvin weight,
EVT	00/07/23	16:20:52	DLG	492635.48	5310527.91	Unknown	2190.488	6.3	104.773°	circular opening in front,
EVT	00/07/23	16:21:04	DLG	492635.48	5310527.91	Unknown	2189.475	7.2	106.931°	going up..,
EVT	00/07/23	16:21:47	DLG	492636.52	5310526.56	Unknown	2191.648	4.9	104.738°	i'm facing east..,
EVT	00/07/23	16:22:31	DLG	492637.40	5310529.39	Unknown	2195.342	1.2	78.171°	shimmering water....,
EVT	00/07/23	16:22:46	DLG	492637.40	5310529.39	Unknown	2194.922	1.7	80.301°	we're on the west side facing east...facing the object,,
EVT	00/07/23	16:23:24	DLG	492635.64	5310531.85	Unknown	2194.543	1.8	70.607°	some kind of red boxlike thing,,
EVT	00/07/23	16:23:30	DLG	492633.77	5310534.83	Unknown	2194.382	2	71.662°	looks like wood,,
EVT	00/07/23	16:24:10	DLG	492635.25	5310535.65	Unknown	2193.929	2.8	67.500°	some thin standing-uplike structure,,
EVT	00/07/23	16:24:32	DLG	492633.13	5310541.86	Unknown	2194.156	2.8	92.242°	VID_GRAB, tag and cardboard cutout,
EVT	00/07/23	16:24:50	DLG	492636.18	5310538.76	Unknown	2194.928	1.8	120.004°	, DIFFUSE,
EVT	00/07/23	16:24:51	DLG	492636.18	5310538.76	Unknown	2195.048	1.8	120.750°	
EVT	00/07/23	16:24:51	DLG	492636.18	5310538.76	Unknown	2195.048	1.7	119.296°	

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EVT	00/07/23	16:24:52	DLG	492636.18	5310538.76	Unknown	2195.089	1.7	118.064°	
EVT	00/07/23	16:24:53	DLG	492636.18	5310538.76	Unknown	2195.222	1.6	117.642°	
EVT	00/07/23	16:25:12	DLG	492636.44	5310537.41	Unknown	2195.222	1.6	120.904°	, DIFFUSE,dflow in front of
EVT	00/07/23	16:25:35	DLG	492636.19	5310538.03	Unknown	2193.264	3.7	115.231°	us...dudley marker
EVT	00/07/23	16:25:51	DLG	492636.63	5310538.95	Unknown	2193.810	2.3	124.214°	VID_GRAB,diffused flow,
EVT	00/07/23	16:25:59	DLG	492636.63	5310538.95	Unknown	2193.990	3	150.227°	sorry for empty entries....,
EVT	00/07/23	16:26:11	DLG	492637.53	5310539.88	Unknown	2193.750	3.1	149.554°	one kore marker,,
EVT	00/07/23	16:26:44	DLG	492637.53	5310539.88	Unknown	2193.621	3.6	151.166°	(triangular marker),,
EVT	00/07/23	16:28:15	DLG	492634.79	5310548.98	Unknown	2194.312	3	132.171°	lots of smoke.,
EVT	00/07/23	16:29:10	DLG	492639.27	5310546.38	Unknown	2192.737	5	99.419°	this is the northside,
EVT	00/07/23	16:32:28	DLG	492635.68	5310545.12	Unknown	2192.568	4.8	202.203°	medea brought to N10,
EVT	00/07/23	16:33:04	DLG	492633.18	5310545.63	Unknown	2194.418	2.3	175.571°	VID_GRAB,current meter
EVT	00/07/23	16:33:57	DLG	492632.38	5310530.64	Unknown	2194.888	1.6	180.444°	more worms,
EVT	00/07/23	16:34:31	DLG	492630.28	5310528.47	Unknown	2192.342	4	182.933°	climbing up..not to get caught
EVT	00/07/23	16:35:04	DLG	492626.47	5310527.70	Unknown	2194.393	2.4	258.418°	in hole,
EVT	00/07/23	16:38:12	DLG	492617.41	5310539.23	Unknown	2194.604	3	117.929°	we need to be between 10 and
EVT	00/07/23	16:39:19	DLG	492613.63	5310540.84	Unknown	2193.145	4.5	98.806°	20 m west of the smokers,
EVT	00/07/23	16:41:02	DLG	492613.81	5310542.26	Unknown	2197.185	0.8	101.900°	wooden block,
EVT	00/07/23	16:41:16	DLG	492613.81	5310542.26	Unknown	2197.160	0.9	101.793°	we need to be pointing at area
EVT	00/07/23	16:41:31	DLG	492613.59	5310543.02	Unknown	2197.180	1.1	101.550°	of most smoke,
EVT	00/07/23	16:42:29	DLG	492615.11	5310542.27	Unknown	2194.073	3.3	78.699°	some camera reffocussing on
EVT	00/07/23	16:42:48	DLG	492613.93	5310544.01	Unknown	2193.432	3.8	159.610°	P&T,
EVT	00/07/23	16:44:05	DLG	492612.99	5310532.68	Unknown	2192.943	4.2	65.597°	VID_GRAB,looks like
EVT	00/07/23	16:46:32	DLG	492608.32	5310535.74	Unknown	2196.934	1	91.366°	polypropylene
EVT	00/07/23	16:47:00	DLG	492599.96	5310542.56	Unknown	2196.961	1.1	92.447°	has some ye-like disks,
EVT	00/07/23	16:48:11	DLG	492599.90	5310535.18	Unknown	2196.983	1.6	129.760°	or is it a current meyer???,
EVT	00/07/23	16:48:44	DLG	492599.90	5310535.18	Unknown	2197.016	1.7	129.683°	back to old camra postion
EVT	00/07/23	16:48:59	DLG	492605.41	5310539.50	Unknown	2196.976	1.7	129.901°	(P&T),
EVT	00/07/23	16:49:11	DLG	492605.26	5310540.52	Unknown	2196.957	30	128.963°	VID_GRAB,some triangular
EVT	00/07/23	16:51:24	DLG	492605.26	5310540.52	Unknown	2197.048	1.8	129.683°	marker
EVT	00/07/23	16:52:11	DLG	492606.21	5310537.53	Unknown	2195.570	1.9	127.254°	crab,
EVT	00/07/23	16:54:12	DLG	492606.21	5310537.53	Unknown	2193.993	3.5	128.118°	touching the surface..a good
EVT	00/07/23	16:58:28	DLG	492605.50	5310537.92	Unknown	2193.996	3.4	127.718°	landing :),
EVT	00/07/23	17:00:26	DLG	492599.98	5310546.02	Unknown	2193.996	3.4	127.602°	we're probably looking at 4&5,
EVT	00/07/23	17:02:38	DLG	492600.48	5310544.47	Unknown	2194.052	3.4	127.819°	turning right...looking almost
EVT	00/07/23	17:03:41	DLG	492604.89	5310539.28	Unknown	2194.024	3.3	127.912°	straight at 4,
EVT	00/07/23	17:03:55	DLG	492605.43	5310539.07	Unknown	2193.965	3.3	127.584°	jason has stopped.,
EVT	00/07/23	17:04:34	DLG	492606.20	5310538.32	Unknown	2193.973	3.4	127.466°	some sonar work to be done
										now.,
										calibrating rotator...,
										looks like sm200 has lost its
										limits.,
										lift-off and hovering ...sonar
										was hitting the rock,
										calibration not going full way,
										we need to rest mechanical
										limits.,
										VID_GRAB,looking straight
										down
										VID_GRAB,different postions
										decided to come up...we have
										to reset the sm200 limits,
										VID_GRAB,postion before
										coming up
										VID_GRAB,coming up

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EVT	00/07/23	17:06:47	DLG	492599.23	5310545.97	Unknown	2193.996	3.4	127.307°	probably happened because of calibrating on rock,
EVT	00/07/23	17:10:26	DLG	492613.91	5310536.52	Unknown	2187.287	9	38.446°	we're leaving the bottom
EVT	00/07/23	17:11:50	DLG	492631.92	5310556.94	Unknown	2159.306	30	36.192°	camera 1 shifted to different viw
EVT	00/07/23	17:14:18	DLG	492647.68	5310553.02	Unknown	2105.918	30	54.913°	posts to be put on jason's frame so that the flange does not hit bottom
EVT	00/07/23	17:14:51	DLG	492648.55	5310553.32	Unknown	2111.772	30	54.727°	..i.e. flange on sonar not to hit rock bottom
EVT	00/07/23	17:15:21	DLG	492646.77	5310554.54	Unknown	2118.408	30	54.437°	i.e.. some more explanation.....
EVT	00/07/23	17:16:00	DLG	492643.05	5310551.17	Unknown	2103.834	30	64.030°	probably the flange on the sm200 hit the rock surface and couldnt move...
EVT	00/07/23	17:16:35	DLG	492640.91	5310550.52	Unknown	2089.856	30	62.851°	but as we tried calibrating the sonar, the flange didnt move but the rotator moved
EVT	00/07/23	17:17:04	DLG	492641.31	5310549.33	Unknown	2077.955	30	60.366°	so, the limits got changed and the rotator does not come to its previous limits.
EVT	00/07/23	17:17:32	DLG	492639.56	5310550.87	Unknown	2067.285	30	61.710°	its been decided that: 1) rock surfaces should be taken very carefully
EVT	00/07/23	17:18:03	DLG	492639.56	5310550.87	Unknown	2055.951	30	62.496°	...2) stilts to be put on jasons bottom so that the sonar flange rotates freely when on rock surface
EVT	00/07/23	17:18:48	DLG	492641.95	5310542.83	Unknown	2040.716	30	63.194°	arm being moved around on P&T
EVT	00/07/23	17:22:23	DLG	492625.69	5310524.06	Unknown	1965.620	30	67.399°	weight being removed
EVT	00/07/23	17:30:14	DLG	492573.17	5310481.79	Unknown	1812.349	30	69.708°	it'll take two hours for jason to be on top..and then another hour to fix.
EVT	00/07/23	17:45:34	DLG	492451.42	5310398.24	Unknown	1524.383	30	76.241°	pulling up as yet
EVT	00/07/23	17:45:53	DLG	492447.60	5310396.48	Unknown	1517.949	30	76.996°	doing some pull-ups :)
EVT	00/07/23	17:47:11	DLG	492435.00	5310387.29	Unknown	1492.929	30	78.078°	could say we're pulling some strings....
EVT	00/07/23	17:54:01	DLG	492372.93	5310354.12	Unknown	1352.290	30	79.562°	some gap in video...was deciding whether recording was necessary..,
EVT	00/07/23	17:55:38	DLG	492360.77	5310346.86	Unknown	1317.419	30	78.699°	stopped vidfeo. ,
EVT	00/07/23	19:10:12	DLG	491708.25	5309991.08	Unknown	739.851	30	67.415°	VID_GRAB,
EVT	00/07/23	23:32:26	DLG	491396.86	5309815.06	Unknown	-0.625	30	135.900°	VID_GRAB,Matt & Maureen
EVT	00/07/23	23:49:26	DLG	491396.86	5309815.06	Unknown	0.432	30	354.080°	jason in the water,
EVT	00/07/23	23:52:05	DLG	491396.86	5309815.06	Unknown	0.115	1.3	345.048°	medea in water,
EVT	00/07/23	23:52:57	DLG	491396.86	5309815.06	Unknown	0.588	30	344.676°	
EVT	00/07/23	23:53:22	DLG	493205.26	5311603.25	Unknown	7.536	30	354.230°	jason's going down,

Event Log VIP 2000 Cruise 7/24/00

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	00:03:59	DLG	493061.19	5311530.16	Unknown	161.402	30	5.466°	testing the new bungee,
EVT	00/07/24	01:34:50	DLG	492657.22	5310651.92	Unknown	1910.592	30	2.002°	VID_GRAB,kind of smoke
EVT	00/07/24	01:46:37	DLG	492611.66	5310554.42	Unknown	2072.144	30	184.164°	about 110 meters to bottom-testing,
EVT	00/07/24	01:49:21	DLG	492615.85	5310552.43	Unknown	2082.089	30	248.967°	stop going down-testing,
EVT	00/07/24	01:50:17	DLG	492617.95	5310546.92	Unknown	2091.052	30	194.378°	going down slowly,
EVT	00/07/24	01:52:30	DLG	492614.94	5310556.49	Unknown	2119.911	18.1	110.033°	in a plume,
EVT	00/07/24	01:54:03	DLG	492614.72	5310555.37	Unknown	2140.675	30	153.006°	60 meters to bottom,
EVT	00/07/24	01:59:47	DLG	492617.75	5310561.43	Unknown	2194.102	4.2	144.976°	stop going down-4 meters to bottom, at S&M,
EVT	00/07/24	02:03:13	DLG	492630.42	5310539.03	Unknown	2193.083	4.9	157.361°	
EVT	00/07/24	02:04:12	DLG	492629.12	5310537.86	Unknown	2193.125	4.5	156.969°	VID_GRAB,currentmeters
EVT	00/07/24	02:06:42	DLG	492628.80	5310538.63	Unknown	2192.188	5.7	154.109°	looking to find a place to sit down,
EVT	00/07/24	02:09:28	DLG	492631.56	5310536.51	Unknown	2193.464	4.2	153.189°	planing the recording,
EVT	00/07/24	02:16:16	DLG	492637.02	5310527.42	Unknown	2193.255	4	79.798°	looking at the base of S&M From the west to the east,
EVT	00/07/24	02:16:41	DLG	492636.96	5310528.56	Unknown	2193.250	4.1	79.654°	VID_GRAB,base of S&M
EVT	00/07/24	02:20:10	DLG	492636.87	5310528.23	Unknown	2193.373	3.9	88.397°	waiting for medea,
EVT	00/07/24	02:22:23	DLG	492637.33	5310528.50	Unknown	2192.810	4.5	88.873°	pointing at S&M,
EVT	00/07/24	02:23:06	DLG	492637.05	5310527.87	Unknown	2192.672	4.7	87.865°	going north at medea,
EVT	00/07/24	02:24:02	DLG	492640.54	5310527.30	Unknown	2189.688	7.4	103.360°	looking at a plume,
EVT	00/07/24	02:24:53	DLG	492640.54	5310527.30	Unknown	2189.590	7.4	102.677°	stable 8 meters from main structure,
EVT	00/07/24	02:25:47	DLG	492635.90	5310535.35	Unknown	2190.565	6.5	101.504°	moving north to a diffuse flow field at the base of S&M,
EVT	00/07/24	02:26:04	DLG	492635.90	5310535.35	Unknown	2191.330	6.3	90.622°	on camera frame 181,
EVT	00/07/24	02:28:58	DLG	492639.95	5310529.54	Unknown	2194.565	3.3	45.600°	looking at northwest of S&M,
EVT	00/07/24	02:30:31	DLG	492639.64	5310529.42	Unknown	2194.777	3.1	46.439°	heading 20 meters to the northwest
EVT	00/07/24	02:31:32	DLG	492638.85	5310529.79	Unknown	2194.745	3.1	317.464°	looking at the Dudley marker,
EVT	00/07/24	02:34:52	DLG	492623.54	5310540.95	Unknown	2194.882	3.3	134.123°	looking southeast at S&M 15-20 meters away,
EVT	00/07/24	02:36:13	DLG	492624.75	5310540.75	Unknown	2194.802	3.4	133.898°	recalibrating the sonar,
EVT	00/07/24	02:39:10	DLG	492624.00	5310540.72	Unknown	2194.853	3.3	132.023°	holding position,
EVT	00/07/24	02:39:28	DLG	492624.55	5310540.88	Unknown	2194.846	3.2	132.388°	setting sonar,
EVT	00/07/24	02:44:16	DLG	492623.93	5310541.04	Unknown	2194.836	3.3	132.459°	planing video survey,
EVT	00/07/24	02:45:08	DLG	492623.78	5310540.99	Unknown	2194.822	3.2	132.850°	gyro reset,
EVT	00/07/24	02:46:18	DLG	492621.40	5310545.15	Unknown	2194.372	3.9	127.881°	10m back off,
EVT	00/07/24	02:47:46	DLG	492618.99	5310547.36	Unknown	2197.348	1.4	126.473°	Site-S&M,facing southEast
EVT	00/07/24	02:47:50	DLG	492618.99	5310547.36	Unknown	2197.538	1.3	126.636°	Site-S&M,VID_GRAB
EVT	00/07/24	02:48:28	DLG	492619.58	5310549.48	Unknown	2198.210	0.7	126.806°	Site-S&M,Target is no.4
EVT	00/07/24	02:48:37	DLG	492618.14	5310550.32	Unknown	2198.058	0.8	126.163°	Site-S&M,we are 20m from the NW
EVT	00/07/24	02:49:08	DLG	492618.14	5310550.32	Unknown	2197.517	1.3	126.224°	Site-S&M,Doppler lock
EVT	00/07/24	02:49:18	DLG	492618.44	5310550.52	Unknown	2197.418	1.4	126.458°	Site-S&M,Alt-1.25m
EVT	00/07/24	02:49:29	DLG	492618.44	5310550.52	Unknown	2197.397	1.5	125.326°	Site-S&M,going to an Alt of 8m
EVT	00/07/24	02:49:32	DLG	492618.44	5310550.52	Unknown	2197.397	1.5	126.062°	Site-S&M,stand by
EVT	00/07/24	02:50:50	DLG	492618.63	5310549.94	Unknown	2191.793	6.8	125.782°	Site-S&M,
EVT	00/07/24	02:52:00	DLG	492617.89	5310550.18	Unknown	2186.467	12	126.362°	Site-S&M,hovering at the point facing SE 131

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	02:52:04	DLG	492617.89	5310550.18	Unknown	2186.540	12	126.351°	Site-S&M,heading
EVT	00/07/24	02:52:45	DLG	492619.01	5310549.42	Unknown	2186.410	12	126.359°	Site-S&M,going down by 4m to 8
EVT	00/07/24	02:54:07	DLG	492618.31	5310550.16	Unknown	2190.467	8.1	126.418°	Site-S&M,
EVT	00/07/24	02:54:36	DLG	492618.16	5310550.42	Unknown	2190.453	8.1	126.747°	Site-S&M,holding the position for recording data
EVT	00/07/24	02:55:07	DLG	492618.20	5310549.88	Unknown	2190.333	8.2	126.720°	Site-S&M,estimated range from S&M 22m
EVT	00/07/24	02:58:43	DLG	492618.12	5310550.33	Unknown	2190.222	8.3	126.636°	Site-S&M,"Recording data in diffuse mode..filename ..16, burst, ping interval 50"
EVT	00/07/24	03:02:33	DLG	492617.91	5310550.22	Unknown	2190.386	8.1	126.337°	Site-S&M,The currents are from SE to NW..and very steady
EVT	00/07/24	03:03:21	DLG	492618.48	5310549.95	Unknown	2190.448	8.1	126.629°	Site-S&M,End of data recording
EVT	00/07/24	03:04:30	DLG	492617.89	5310550.24	Unknown	2190.382	8.1	126.562°	Site-S&M,Recalibrating the instrument
EVT	00/07/24	03:04:57	DLG	492617.27	5310550.31	Unknown	2190.424	8.1	126.501°	Site-S&M,doing a gyro reset
EVT	00/07/24	03:12:53	DLG	492617.96	5310550.39	Unknown	2190.315	8.1	126.840°	Site-S&M,Recording again...file 17..
EVT	00/07/24	03:20:14	DLG	492617.16	5310550.12	Unknown	2190.319	8.2	126.648°	Site-S&M,the bow of Jason is 7degrees from horizontal in this mission
EVT	00/07/24	03:28:24	DLG	492617.55	5310550.23	Unknown	2190.453	8	126.264°	Site-S&M,both the videos have the same input
EVT	00/07/24	03:28:32	DLG	492617.55	5310550.23	Unknown	2190.388	8	126.239°	Site-S&M,I dont know why
EVT	00/07/24	03:31:08	DLG	492617.95	5310550.05	Unknown	2190.350	8	126.230°	Site-S&M,now they dont
EVT	00/07/24	03:31:37	DLG	492618.66	5310549.40	Unknown	2190.296	8	126.009°	Site-S&M,I dont know why either :-)
EVT	00/07/24	03:33:00	DLG	492617.82	5310550.50	Unknown	2190.310	8.1	125.933°	Site-S&M,done recording
EVT	00/07/24	03:33:09	DLG	492617.82	5310550.50	Unknown	2190.370	8	126.037°	Site-S&M,resetting gyro
EVT	00/07/24	03:33:29	DLG	492617.81	5310550.27	Unknown	2190.350	8	125.955°	Site-S&M,heading 125
EVT	00/07/24	03:40:41	DLG	492618.22	5310549.85	Unknown	2190.170	8.3	126.319°	Site-S&M,Starting recording again....
EVT	00/07/24	03:46:28	DLG	492618.75	5310549.30	Unknown	2190.303	8	126.432°	Site-S&M,we see something
EVT	00/07/24	03:50:28	DLG	492617.66	5310549.81	Unknown	2190.376	8	126.606°	Site-S&M,dont feel like we are getting much
EVT	00/07/24	03:50:54	DLG	492617.46	5310550.21	Unknown	2190.379	8	126.571°	Site-S&M,getting ready to change tapes..10 mins left
EVT	00/07/24	03:51:32	DLG	492618.35	5310550.15	Unknown	2190.379	7.9	126.853°	Site-S&M,one
EVT	00/07/24	03:53:23	DLG	492617.83	5310550.11	Unknown	2190.365	7.9	126.164°	Site-S&M,changed tapes
EVT	00/07/24	04:00:55	DLG	492618.01	5310550.17	Unknown	2190.255	8	125.391°	Site-S&M,Stopped recording
EVT	00/07/24	04:04:46	DLG	492618.10	5310549.12	Unknown	2191.339	7	188.676°	Site-S&M,moving to site of previous lowering
EVT	00/07/24	04:08:47	DLG	492624.25	5310550.09	Unknown	2192.705	4.2	205.919°	Site-S&M,Jason is spinning in one place to remove the twists in the cable
EVT	00/07/24	04:09:46	DLG	492623.43	5310551.61	Unknown	2194.544	1.9	293.939°	Site-S&M,VID_GRAB
EVT	00/07/24	04:10:56	DLG	492623.86	5310549.13	Unknown	2194.172	3.2	17.289°	Site-S&M,VID_GRAB
EVT	00/07/24	04:11:16	DLG	492625.64	5310548.43	Unknown	2194.298	1.7	9.321°	Site-S&M,Going NE
EVT	00/07/24	04:11:32	DLG	492628.05	5310550.82	Unknown	2195.217	1.7	10.744°	Site-S&M,VID_GRAB
EVT	00/07/24	04:12:20	DLG	492634.17	5310552.73	Unknown	2195.943	1.8	12.574°	Site-S&M,heading N N
EVT	00/07/24	04:12:25	DLG	492634.17	5310552.73	Unknown	2195.890	2	13.726°	Site-S&M,NE
EVT	00/07/24	04:13:05	DLG	492642.42	5310554.29	Unknown	2195.950	2.3	24.415°	Site-S&M,VID_GRAB
EVT	00/07/24	04:14:18	DLG	492646.81	5310569.71	Unknown	2193.781	3.5	298.720°	Site-S&M,
EVT	00/07/24	04:14:25	DLG	492646.81	5310569.71	Unknown	2193.542	3.9	315.966°	Site-S&M,Still going up slope

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	04:14:29	DLG	492646.81	5310569.71	Unknown	2193.216	4.2	304.043°	Site-S&M,gyro reset
EVT	00/07/24	04:14:34	DLG	492646.81	5310569.71	Unknown	2193.742	3.7	316.159°	Site-S&M,coming down
EVT	00/07/24	04:15:05	DLG	492644.83	5310578.87	Unknown	2193.801	3.8	310.153°	Site-S&M,moving NW ,
EVT	00/07/24	04:15:49	DLG	492641.13	5310581.19	Unknown	2196.311	1.3	32.045°	Site-S&M,heading NE ,
EVT	00/07/24	04:16:00	DLG	492641.48	5310580.08	Unknown	2197.226	0.9	32.889°	Site-S&M,going down,
EVT	00/07/24	04:16:03	DLG	492641.48	5310580.08	Unknown	2197.305	0.8	32.441°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:18:13	DLG	492650.76	5310582.66	Unknown	2196.587	1.3	348.366°	Site-S&M,nearing the edge of a mound sort of a thing,
EVT	00/07/24	04:18:20	DLG	492648.80	5310584.94	Unknown	2196.688	1.4	349.752°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:20:01	DLG	492656.02	5310596.11	Unknown	2194.978	2.5	351.226°	Site-S&M,climbing a mound,
EVT	00/07/24	04:24:34	DLG	492633.26	5310588.33	Unknown	2195.519	2.2	227.222°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:25:24	DLG	492630.42	5310588.36	Unknown	2196.361	0.8	168.709°	Site-S&M,VID_GRAB,beer bottle
EVT	00/07/24	04:26:32	DLG	492634.75	5310587.75	Unknown	2196.470	1.6	104.848°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:26:46	DLG	492639.54	5310589.85	Unknown	2196.534	1.4	99.489°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:27:58	DLG	492656.12	5310594.65	Unknown	2196.230	7.3	217.396°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:28:06	DLG	492656.12	5310594.65	Unknown	2197.262	5.7	218.143°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:28:12	DLG	492656.12	5310594.65	Unknown	2198.421	4.5	261.125°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:29:19	DLG	492661.09	5310594.04	Unknown	2203.546	3.2	187.753°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:29:43	DLG	492654.73	5310598.17	Unknown	2205.556	1.7	182.669°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:30:28	DLG	492653.75	5310596.67	Unknown	2201.908	3.3	204.463°	Site-S&M,VID_GRAB
EVT	00/07/24	04:30:39	DLG	492656.01	5310592.47	Unknown	2200.768	4.4	204.801°	Site-S&M,VID_GRAB
EVT	00/07/24	04:30:53	DLG	492656.01	5310592.47	Unknown	2199.356	6.8	205.464°	Site-S&M,VID_GRAB
EVT	00/07/24	04:31:04	DLG	492655.76	5310592.36	Unknown	2198.550	7.7	213.185°	Site-S&M,VID_GRAB
EVT	00/07/24	04:31:28	DLG	492656.33	5310592.38	Unknown	2197.744	8.3	236.338°	Site-S&M,VID_GRAB
EVT	00/07/24	04:33:07	DLG	492648.73	5310593.51	Unknown	2196.703	1.2	236.215°	Site-S&M,VID_GRAB
EVT	00/07/24	04:34:07	DLG	492636.10	5310594.56	Unknown	2197.297	1	222.080°	Site-S&M,VID_GRAB
EVT	00/07/24	04:34:14	DLG	492636.10	5310594.56	Unknown	2197.449	0.9	213.469°	Site-S&M,VID_GRAB
EVT	00/07/24	04:34:21	DLG	492634.55	5310596.42	Unknown	2197.423	0.8	208.393°	Site-S&M,small fish
EVT	00/07/24	04:35:53	DLG	492627.31	5310585.56	Unknown	2195.518	1.6	161.423°	Site-S&M,VID_GRAB
EVT	00/07/24	04:36:29	DLG	492632.46	5310579.04	Unknown	2195.764	1.4	154.722°	Site-S&M,VID_GRAB
EVT	00/07/24	04:36:47	DLG	492631.27	5310580.43	Unknown	2195.741	1.5	162.096°	Site-S&M,scientific debris
EVT	00/07/24	04:36:55	DLG	492631.27	5310580.43	Unknown	2196.025	1.6	167.914°	Site-S&M,VID_GRAB
EVT	00/07/24	04:37:02	DLG	492633.74	5310578.57	Unknown	2196.213	1.4	166.049°	Site-S&M,fault
EVT	00/07/24	04:37:39	DLG	492635.16	5310574.29	Unknown	2196.160	1.2	167.495°	Site-S&M,VID_GRAB
EVT	00/07/24	04:38:15	DLG	492635.41	5310572.16	Unknown	2196.921	0.9	167.607°	Site-S&M,VID_GRAB
EVT	00/07/24	04:38:37	DLG	492635.39	5310569.53	Unknown	2195.476	2.3	166.660°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:38:56	DLG	492635.39	5310569.53	Unknown	2196.974	1	168.121°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:40:24	DLG	492634.13	5310558.88	Unknown	2195.725	1.7	152.431°	Site-S&M,turing to SE,
EVT	00/07/24	04:41:07	DLG	492633.26	5310555.22	Unknown	2195.159	1.9	147.136°	Site-S&M,we are at 20m from S&M,
EVT	00/07/24	04:41:44	DLG	492632.00	5310549.77	Unknown	2194.294	2.9	162.295°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:42:52	DLG	492631.22	5310549.17	Unknown	2194.446	2.8	235.455°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:43:15	DLG	492632.13	5310552.42	Unknown	2193.960	2.4	258.324°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:43:21	DLG	492629.96	5310553.22	Unknown	2194.126	2.6	262.921°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:44:04	DLG	492628.63	5310556.74	Unknown	2193.701	3.1	123.727°	Site-S&M,hovering over a mound,
EVT	00/07/24	04:44:43	DLG	492626.05	5310551.79	Unknown	2194.319	2.7	10.932°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:45:40	DLG	492629.94	5310543.50	Unknown	2195.307	2	211.415°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:45:47	DLG	492629.94	5310543.50	Unknown	2196.160	1.2	236.399°	Site-S&M,VID_GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	04:47:01	DLG	492621.40	5310532.35	Unknown	2196.486	1.6	258.632°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:47:15	DLG	492621.40	5310532.35	Unknown	2195.696	2	265.684°	Site-S&M,about 20m away from the tangent...,
EVT	00/07/24	04:47:29	DLG	492616.44	5310533.76	Unknown	2194.963	3	296.776°	Site-S&M,Heading west now...,
EVT	00/07/24	04:47:36	DLG	492616.44	5310533.76	Unknown	2194.890	3.2	291.835°	Site-S&M,going out to find a table rock,
EVT	00/07/24	04:47:42	DLG	492614.23	5310535.37	Unknown	2195.461	2.8	293.598°	Site-S&M,then turn east,
EVT	00/07/24	04:47:51	DLG	492614.23	5310535.37	Unknown	2195.303	2.5	318.442°	Site-S&M,and face the plumes and settle in for scanning,
EVT	00/07/24	04:48:10	DLG	492612.13	5310540.61	Unknown	2197.361	1.3	329.064°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:50:43	DLG	492595.20	5310539.57	Unknown	2198.780	0.7	133.483°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:50:55	DLG	492595.20	5310539.57	Unknown	2198.101	0.8	82.185°	Site-S&M,down the slope,
EVT	00/07/24	04:52:25	DLG	492595.20	5310539.57	Unknown	2196.169	2.1	111.048°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:52:30	DLG	492595.20	5310539.57	Unknown	2196.191	2.3	115.469°	Site-S&M,CH market,
EVT	00/07/24	04:52:34	DLG	492595.20	5310539.57	Unknown	2196.158	2.1	111.812°	Site-S&M,marker ,
EVT	00/07/24	04:52:47	DLG	492595.20	5310539.57	Unknown	2195.476	2.6	120.143°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:52:53	DLG	492595.20	5310539.57	Unknown	2195.663	2.5	131.879°	Site-S&M,another one,
EVT	00/07/24	04:54:10	DLG	492521.16	5310659.52	Unknown	2197.408	0.8	135.229°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:54:25	DLG	493736.38	5313517.47	Unknown	2197.374	0.8	135.031°	Site-S&M,looking between 4 and 5
EVT	00/07/24	04:57:57	DLG	493736.28	5313476.17	Unknown	2196.478	1.7	137.180°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:58:08	DLG	493738.94	5313489.39	Unknown	2195.578	2.5	138.466°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:58:17	DLG	494934.67	5323302.32	Unknown	2194.553	3.5	136.502°	Site-S&M,VID_GRAB,
EVT	00/07/24	04:59:07	DLG	493741.74	5313544.97	Unknown	2194.480	1.1	134.110°	Site-S&M,VID_GRAB,landing it
EVT	00/07/24	04:59:16	DLG	493741.74	5313544.97	Unknown	2194.527	1.1	134.281°	Site-S&M,on a rock
EVT	00/07/24	05:01:57	DLG	494946.74	5323491.67	Unknown	2191.725	6.3	69.569°	Site-S&M,VID_GRAB
EVT	00/07/24	05:02:10	DLG	492632.54	5310517.86	Unknown	2194.116	3.7	54.742°	Site-S&M,VID_GRAB
EVT	00/07/24	05:02:24	DLG	492632.54	5310517.86	Unknown	2194.576	3.4	55.204°	Site-S&M,VID_GRAB
EVT	00/07/24	05:02:34	DLG	492632.54	5310517.86	Unknown	2194.902	2.9	49.966°	Site-S&M,Skate
EVT	00/07/24	05:02:41	DLG	492614.86	5310525.87	Unknown	2195.495	2.4	61.041°	Site-S&M,VID_GRAB
EVT	00/07/24	05:02:50	DLG	492614.86	5310525.87	Unknown	2195.421	2.4	53.655°	Site-S&M,VID_GRAB
EVT	00/07/24	05:02:58	DLG	492616.82	5310526.05	Unknown	2195.927	2	54.532°	Site-S&M,VID_GRAB
EVT	00/07/24	05:03:40	DLG	492618.19	5310528.08	Unknown	2196.012	1.9	54.842°	Site-S&M,VID_GRAB
EVT	00/07/24	05:04:03	DLG	492619.66	5310528.16	Unknown	2196.233	1.4	54.354°	Site-S&M,VID_GRAB
EVT	00/07/24	05:04:09	DLG	492619.66	5310528.16	Unknown	2196.269	1.4	54.976°	Site-S&M,VID_GRAB
EVT	00/07/24	05:05:50	DLG	492627.27	5310530.28	Unknown	2194.576	2.8	90.595°	Site-S&M,VID_GRAB
EVT	00/07/24	05:07:03	DLG	492627.95	5310533.04	Unknown	2195.421	1.7	283.887°	Site-S&M,VID_GRAB
EVT	00/07/24	05:08:16	DLG	492611.87	5310534.06	Unknown	2196.846	1.3	47.329°	Site-S&M,VID_GRAB
EVT	00/07/24	05:09:20	DLG	492611.31	5310533.58	Unknown	2197.026	0.9	65.438°	Site-S&M,looking for a platform
EVT	00/07/24	05:09:23	DLG	492611.31	5310533.58	Unknown	2197.206	0.8	66.283°	Site-S&M,moving in
EVT	00/07/24	05:12:49	DLG	492627.10	5310527.37	Unknown	2193.499	4.5	55.817°	Site-S&M,we are getting into warm waters
EVT	00/07/24	05:13:58	DLG	492615.13	5310533.28	Unknown	2197.674	1.9	55.873°	Site-S&M,VID_GRAB
EVT	00/07/24	05:16:05	DLG	492620.24	5310528.96	Unknown	2196.628	1.2	71.441°	Site-S&M,VID_GRAB
EVT	00/07/24	05:17:14	DLG	492624.01	5310527.06	Unknown	2196.822	0.8	75.559°	Site-S&M,15m to the W of 4
EVT	00/07/24	05:17:23	DLG	492624.63	5310527.03	Unknown	2196.782	0.8	75.555°	Site-S&M,pretty stable
EVT	00/07/24	05:18:06	DLG	492624.68	5310526.48	Unknown	2196.822	0.8	75.228°	Site-S&M,Ready to record
EVT	00/07/24	05:20:32	DLG	492624.11	5310527.06	Unknown	2196.489	0.7	76.500°	Site-S&M,see the smokey diffuse flow on the BRW cam

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	05:22:36	DLG	492624.78	5310525.45	Unknown	2196.516	0.8	77.816°	Site-S&M,VID_GRAB
EVT	00/07/24	05:25:21	DLG	492624.58	5310526.18	Unknown	2196.529	0.8	78.589°	Site-S&M,changing settings for recording....
EVT	00/07/24	05:26:15	DLG	492624.97	5310525.79	Unknown	2196.522	2.2	78.448°	Site-S&M,
EVT	00/07/24	05:26:30	DLG	492625.99	5310525.00	Unknown	2196.482	0.8	78.183°	Site-S&M,scan mode on
EVT	00/07/24	05:28:00	DLG	492624.95	5310525.37	Unknown	2196.429	0.8	79.055°	Site-S&M,see diffuse flow there
EVT	00/07/24	05:28:03	DLG	492624.95	5310525.37	Unknown	2196.476	0.8	79.177°	Site-S&M,VID_GRAB
EVT	00/07/24	05:32:28	DLG	492620.24	5310525.68	Unknown	2196.583	1.5	61.984°	Site-S&M,
EVT	00/07/24	05:33:35	DLG	492613.93	5310524.21	Unknown	2196.602	30	60.660°	Site-S&M,its stable.... we are looking at E-NE...
EVT	00/07/24	05:33:48	DLG	492619.62	5310525.16	Unknown	2196.562	1.8	60.180°	Site-S&M,getting ready to record data
EVT	00/07/24	05:34:43	DLG	492614.69	5310524.84	Unknown	2196.589	30	61.355°	Site-S&M,about 22m away from S&M
EVT	00/07/24	05:37:32	DLG	492625.61	5310526.25	Unknown	2196.609	1.5	62.930°	Site-S&M,started recording about 2mins ago
EVT	00/07/24	05:50:32	DLG	492624.87	5310525.82	Unknown	2196.524	1.4	59.955°	Site-S&M,Change of tapes...
EVT	00/07/24	05:51:08	DLG	492625.08	5310526.40	Unknown	2196.544	1.6	60.001°	Site-S&M,done
EVT	00/07/24	05:57:26	DLG	492623.64	5310526.55	Unknown	2196.396	30	59.625°	Site-S&M,still recording
EVT	00/07/24	06:03:56	DLG	492624.79	5310525.63	Unknown	2196.448	1.6	59.674°	Site-S&M,almost to the end of recording
EVT	00/07/24	06:04:08	DLG	492624.34	5310525.85	Unknown	2196.456	1.5	60.035°	Site-S&M,going through the cycles
EVT	00/07/24	06:15:50	DLG	492623.45	5310526.16	Unknown	2196.597	1.5	59.073°	Site-S&M,pausing scanning
EVT	00/07/24	06:17:34	DLG	492624.24	5310526.41	Unknown	2196.564	1.4	58.935°	Site-S&M,finished scanning
EVT	00/07/24	06:17:54	DLG	492623.70	5310526.34	Unknown	2196.523	1.5	58.612°	Site-S&M,getting ready for another recording at the same place
EVT	00/07/24	06:18:05	DLG	492624.99	5310525.40	Unknown	2196.510	1.6	58.623°	Site-S&M,lol
EVT	00/07/24	06:21:04	DLG	492622.97	5310526.12	Unknown	2196.499	1.8	59.508°	Site-S&M,Starting recording..... :-P
EVT	00/07/24	06:21:14	DLG	492622.97	5310526.12	Unknown	2196.428	30	59.169°	Site-S&M,recording
EVT	00/07/24	06:23:31	DLG	492624.12	5310525.70	Unknown	2196.463	1.4	59.262°	Site-S&M,VID_GRAB
EVT	00/07/24	06:27:01	DLG	492624.87	5310527.01	Unknown	2196.481	1.6	59.066°	Site-S&M,recording
EVT	00/07/24	06:34:49	DLG	492625.08	5310526.30	Unknown	2196.378	30	58.703°	Site-S&M,diffuse flow concentration at around 20m from us
EVT	00/07/24	06:34:56	DLG	492625.08	5310526.30	Unknown	2196.396	1.4	58.530°	Site-S&M,VID_GRAB
EVT	00/07/24	06:39:04	DLG	492624.09	5310526.15	Unknown	2196.440	1.9	57.735°	Site-S&M,zoom on cam 2
EVT	00/07/24	06:44:04	DLG	492623.85	5310526.00	Unknown	2196.343	1.5	57.794°	Site-S&M,problem with camera switching
EVT	00/07/24	06:44:22	DLG	492624.01	5310526.15	Unknown	2196.456	1.6	58.002°	Site-S&M,looks like we are not able to figure out which cam is the P&T
EVT	00/07/24	06:44:43	DLG	492624.85	5310525.92	Unknown	2196.448	30	58.201°	Site-S&M,Agent Martin is figuring it out
EVT	00/07/24	06:44:59	DLG	492623.80	5310526.20	Unknown	2196.362	30	57.801°	Site-S&M,VID_GRAB
EVT	00/07/24	06:45:15	DLG	492623.80	5310526.20	Unknown	2196.376	30	57.777°	Site-S&M,Good close one
EVT	00/07/24	06:50:17	DLG	492623.81	5310525.58	Unknown	2196.378	1.7	59.059°	Site-S&M,We are also having problems with the telemetry
EVT	00/07/24	06:50:31	DLG	492623.81	5310525.58	Unknown	2196.318	1.5	58.863°	Site-S&M,also with the sonor
EVT	00/07/24	06:50:45	DLG	492624.70	5310526.17	Unknown	2196.422	1.7	58.997°	Site-S&M,looks like the P&T cam just blacked out
EVT	00/07/24	06:51:34	DLG	492624.68	5310525.66	Unknown	2196.475	30	59.046°	Site-S&M,problem with the camera is solved

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	06:51:36	DLG	492624.68	5310525.66	Unknown	2196.422	1.7	58.972°	Site-S&M,yep
EVT	00/07/24	06:58:10	DLG	492623.99	5310525.67	Unknown	2196.457	1.3	57.078°	Site-S&M,rebooting SM2000 software
EVT	00/07/24	06:58:26	DLG	492623.01	5310525.44	Unknown	2196.437	30	57.140°	Site-S&M,rebroadcasting again
EVT	00/07/24	07:01:26	DLG	492623.99	5310526.28	Unknown	2196.464	1.8	56.530°	Site-S&M,shift change
EVT	00/07/24	07:01:34	DLG	492623.99	5310526.28	Unknown	2196.371	1.5	56.790°	Site-S&M,recalibrating
EVT	00/07/24	07:02:25	DLG	492623.50	5310526.46	Unknown	2196.424	1.6	57.273°	Site-S&M,recalibration seems to be working,,
EVT	00/07/24	07:10:25	DLG	492621.65	5310527.00	Unknown	2196.418	1.3	56.128°	Site-S&M,recalibrating,,
EVT	00/07/24	07:10:49	DLG	492624.74	5310526.02	Unknown	2196.391	30	56.494°	Site-S&M,discovered that moving windows around in SM2000 software stops rotator,,
EVT	00/07/24	07:13:12	DLG	492623.50	5310526.79	Unknown	2196.425	30	112.852°	Site-S&M,VID_GRAB,Alvin weight,,
EVT	00/07/24	07:15:57	DLG	492622.71	5310526.25	Unknown	2196.046	0.7	66.872°	Site-S&M,adjusting JASON's position to original heading of 070,,
EVT	00/07/24	07:16:21	DLG	492622.27	5310525.75	Unknown	2196.019	0.8	66.884°	Site-S&M,recalibrating,,
EVT	00/07/24	07:19:10	DLG	492622.70	5310526.78	Unknown	2195.999	0.7	70.528°	Site-S&M,, PLUME,start recording P2 00G24004 sonar imaging
EVT	00/07/24	07:21:24	DLG	492623.48	5310526.46	Unknown	2196.035	0.7	70.716°	Site-S&M,VID_GRAB,Looking down at JASOMN,
EVT	00/07/24	07:21:56	DLG	492622.81	5310526.09	Unknown	2195.962	0.7	70.772°	Site-S&M,change transmitter power from low to high 7:21:45,,
EVT	00/07/24	07:22:47	DLG	492624.17	5310525.81	Unknown	2195.957	0.7	70.552°	Site-S&M,VID_GRAB,,
EVT	00/07/24	07:23:07	DLG	492624.60	5310526.24	Unknown	2195.951	0.7	70.647°	Site-S&M,VID_GRAB,sonar ,
EVT	00/07/24	07:36:34	DLG	492623.35	5310527.12	Unknown	2195.956	0.7	69.827°	Site-S&M,noticed JASON heading has drifted by 10 degrees,,
EVT	00/07/24	07:37:16	DLG	492622.73	5310526.64	Unknown	2195.929	0.7	69.284°	Site-S&M,stopped recording sonar imaging,,
EVT	00/07/24	07:37:28	DLG	492623.58	5310526.54	Unknown	2195.863	0.7	61.030°	Site-S&M,readjusting heading to 070,,
EVT	00/07/24	07:38:45	DLG	492623.34	5310527.12	Unknown	2195.982	0.7	67.945°	Site-S&M,changing transmitter power to medium,,
EVT	00/07/24	07:38:48	DLG	492623.34	5310527.12	Unknown	2195.929	0.7	67.781°	Site-S&M,recalibrating,,
EVT	00/07/24	07:42:19	DLG	492623.68	5310526.56	Unknown	2195.969	0.7	67.889°	Site-S&M,, PLUME,start recording P2 00G24022 sonar imaging
EVT	00/07/24	07:50:51	DLG	492623.00	5310527.03	Unknown	2195.916	0.7	68.593°	Site-S&M,gyro reset back to 070,,
EVT	00/07/24	07:57:46	DLG	492621.98	5310526.76	Unknown	2195.970	0.7	68.327°	Site-S&M,VID_GRAB, shrimp in video,
EVT	00/07/24	08:06:02	DLG	492623.44	5310526.79	Unknown	2195.886	0.7	67.895°	Site-S&M,resetting gyro to heading of 070,,
EVT	00/07/24	08:06:43	DLG	492621.59	5310526.02	Unknown	2196.066	0.7	66.912°	Site-S&M,resume recording (paused for gyro reset),,
EVT	00/07/24	08:11:00	DLG	492622.64	5310526.27	Unknown	2196.016	0.6	66.158°	Site-S&M,VID_GRAB,,
EVT	00/07/24	08:11:23	DLG	492622.76	5310526.21	Unknown	2196.057	0.7	65.429°	Site-S&M,VID_GRAB,small fish in crevice,
EVT	00/07/24	08:12:38	DLG	492622.80	5310526.35	Unknown	2196.002	0.7	66.960°	Site-S&M,stop recording,,
EVT	00/07/24	08:14:09	DLG	492623.26	5310526.68	Unknown	2196.101	0.7	65.762°	Site-S&M,PandT blacked out,,
EVT	00/07/24	08:16:39	DLG	492623.47	5310526.38	Unknown	2196.072	0.7	67.548°	Site-S&M,receiving error messages on SM2000 software,,
EVT	00/07/24	08:17:20	DLG	492623.54	5310525.64	Unknown	2196.056	0.7	67.710°	Site-S&M,possible telemetry error on SM2000 computer,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	08:18:13	DLG	492623.68	5310526.17	Unknown	2196.074	0.7	67.043°	Site-S&M,switching around a lot on decks 2 and 4 video input,,
EVT	00/07/24	08:18:44	DLG	492624.63	5310525.05	Unknown	2196.014	0.7	66.620°	Site-S&M,restarting SM2000 software,,
EVT	00/07/24	08:19:23	DLG	492624.73	5310525.50	Unknown	2196.081	0.7	66.986°	Site-S&M,"receiving SM2000 errors ""this program has performed an illegal operation...""",,
EVT	00/07/24	08:19:43	DLG	492623.41	5310525.64	Unknown	2196.040	0.7	67.694°	Site-S&M,SM2000 software going through startup sequence,,
EVT	00/07/24	08:20:24	DLG	492623.15	5310525.73	Unknown	2196.040	1.6	67.044°	Site-S&M,decks 2 and 4 video input black (on Pan and Tilt trying to rectify problems),,
EVT	00/07/24	08:21:33	DLG	492623.39	5310525.84	Unknown	2195.985	1.6	65.912°	Site-S&M,Pan and Tilt camera back but experiencing some difficulties gaining good picture quality,,
EVT	00/07/24	08:21:59	DLG	492622.54	5310526.40	Unknown	2196.053	1.6	65.636°	Site-S&M,SM2000 software back on... checking parameters,,
EVT	00/07/24	08:22:47	DLG	492623.54	5310526.24	Unknown	2196.031	0.7	67.446°	Site-S&M,Pan and Tilt blacked out,,
EVT	00/07/24	08:23:54	DLG	492622.48	5310526.53	Unknown	2195.999	0.7	67.023°	Site-S&M,problems with iris in Pan and Tilt camera,,
EVT	00/07/24	08:24:18	DLG	492622.62	5310526.32	Unknown	2195.972	0.7	66.819°	Site-S&M,Pan and Tilt camera signal back,,
EVT	00/07/24	08:24:39	DLG	492622.77	5310525.42	Unknown	2195.985	0.7	67.017°	Site-S&M,SM2000 software seems to be working again,,
EVT	00/07/24	08:27:22	DLG	492623.20	5310525.84	Unknown	2195.985	0.7	66.656°	Site-S&M,recalibrating rotator,,
EVT	00/07/24	08:28:40	DLG	492622.26	5310526.42	Unknown	2195.961	0.7	65.936°	Site-S&M,experiencing Pan and Tilt camera focus problems,,
EVT	00/07/24	08:29:29	DLG	492623.49	5310526.17	Unknown	2195.948	0.7	66.645°	Site-S&M,setting sonar imaging parameters,,
EVT	00/07/24	08:31:04	DLG	492621.06	5310526.24	Unknown	2195.980	0.7	69.821°	Site-S&M,, PLUME,start recording P4 00G24023 plume sonar imaging
EVT	00/07/24	08:38:02	DLG	492623.57	5310525.16	Unknown	2195.977	0.7	70.337°	Site-S&M,regained focus control on Pan and Tilt camera,,
EVT	00/07/24	08:40:23	DLG	492623.87	5310525.45	Unknown	2195.961	0.7	69.272°	Site-S&M,still experiencing some difficulty with Pan and Tilt camera,,
EVT	00/07/24	08:40:36	DLG	492623.87	5310525.45	Unknown	2196.002	0.7	69.463°	Site-S&M,JASON gyro reset to heading of 070,,
EVT	00/07/24	08:41:15	DLG	492623.03	5310525.88	Unknown	2196.034	0.7	72.069°	Site-S&M,JASON gyro reset to 070 heading,,
EVT	00/07/24	08:46:41	DLG	492622.21	5310526.21	Unknown	2196.239	1.5	68.555°	Site-S&M,adjusting Pan and Tilt camera settings to resolve technical problems,,
EVT	00/07/24	08:50:36	DLG	492623.87	5310525.46	Unknown	2196.392	30	67.031°	Site-S&M,Pan and Tilt camera controls seem stable,,
EVT	00/07/24	08:52:00	DLG	492622.44	5310525.42	Unknown	2196.369	1.7	75.345°	Site-S&M,resetting JASON gyro to heading of 070,,
EVT	00/07/24	08:52:59	DLG	492623.91	5310526.13	Unknown	2196.382	1.5	64.065°	Site-S&M,JASON gyro reset (heading 064),,
EVT	00/07/24	09:03:50	DLG	492623.12	5310524.19	Unknown	2196.294	30	57.369°	Site-S&M,stop recording,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	09:09:55	DLG	492624.03	5310524.94	Unknown	2196.669	1.6	69.405°	Site-S&M,testing settings on SM2000 (minimizing side lobes under Processing menu),,
EVT	00/07/24	09:12:52	DLG	492623.73	5310524.62	Unknown	2196.650	28.2	68.848°	Site-S&M,minimizing side lobes did not seem to improve the display (did notice better resolution in maximize resolution mode),,
EVT	00/07/24	09:16:16	DLG	492622.86	5310525.50	Unknown	2196.577	30	67.350°	Site-S&M,preparing for slice doppler,,
EVT	00/07/24	09:20:28	DLG	492621.23	5310527.33	Unknown	2196.577	1.8	68.699°	Site-S&M,"testing imaging, identifying plume trailings",,
EVT	00/07/24	09:22:14	DLG	492623.17	5310525.18	Unknown	2196.564	30	62.236°	Site-S&M,, PLUME,start recording P5 00G24024 plume sonar imaging (reset JASON gyro to 065 just prior to start)
EVT	00/07/24	09:23:52	DLG	492622.93	5310525.00	Unknown	2196.508	1.5	61.324°	Site-S&M,stop recording,,
EVT	00/07/24	09:25:39	DLG	492623.95	5310524.92	Unknown	2196.515	1.6	60.033°	Site-S&M,, PLUME,start recording P5 00g24025 plume sonar imaging (45 degrees)
EVT	00/07/24	09:27:21	DLG	492622.36	5310525.26	Unknown	2196.477	2	58.232°	Site-S&M,stop recording,,
EVT	00/07/24	09:28:52	DLG	492623.70	5310525.31	Unknown	2196.566	1.6	65.078°	Site-S&M,, PLUME,start recording P5 00G24026 plume sonar imaging (50 degrees)
EVT	00/07/24	09:29:33	DLG	492618.06	5310525.12	Unknown	2196.553	2.3	64.602°	Site-S&M,reset JASON gyro to 065 just prior to current P5 recording,,
EVT	00/07/24	09:31:51	DLG	492621.60	5310524.90	Unknown	2196.579	1.6	62.911°	Site-S&M,stop recording,,
EVT	00/07/24	09:33:02	DLG	492621.15	5310525.29	Unknown	2196.559	2	62.233°	Site-S&M,, PLUME,start recording P5 00G24027 plume sonar imaging (55 degrees)
EVT	00/07/24	09:35:08	DLG	492622.37	5310526.01	Unknown	2196.579	30	60.271°	Site-S&M,stop recording,,
EVT	00/07/24	09:38:21	DLG	492623.44	5310525.22	Unknown	2196.537	1.5	57.182°	Site-S&M,, PLUME,start recording P5 00G24028 plume sonar imaging
EVT	00/07/24	09:40:25	DLG	492621.10	5310524.29	Unknown	2196.543	1.6	55.861°	Site-S&M,stop recording,,
EVT	00/07/24	09:43:01	DLG	492623.89	5310525.66	Unknown	2196.642	30	63.669°	Site-S&M,, PLUME,"start recording P5 00G24029 plume sonar imaging (65 degrees), JASON gyro reset to 065 prior to recording"
EVT	00/07/24	09:45:10	DLG	492621.75	5310525.79	Unknown	2196.630	30	61.783°	Site-S&M,stop recording,,
EVT	00/07/24	09:49:44	DLG	492621.58	5310525.29	Unknown	2196.691	30	58.273°	Site-S&M,setting sonar imaging parameters for next scan,,
EVT	00/07/24	09:52:24	DLG	492620.58	5310525.72	Unknown	2196.704	1.5	56.845°	Site-S&M,recalibrating,,
EVT	00/07/24	09:55:48	DLG	492622.40	5310524.87	Unknown	2196.691	1.5	53.766°	Site-S&M,restarted SM2000 software,,
EVT	00/07/24	09:59:29	DLG	492623.82	5310525.21	Unknown	2196.684	30	50.879°	Site-S&M,switched off science bus,,
EVT	00/07/24	09:59:36	DLG	492623.82	5310525.21	Unknown	2196.684	1.6	50.727°	Site-S&M,turned on science bus,,
EVT	00/07/24	09:59:46	DLG	492622.31	5310526.89	Unknown	2196.737	30	50.563°	Site-S&M,restarting SM2000 software,,
EVT	00/07/24	10:06:13	DLG	492622.69	5310525.94	Unknown	2196.788	1.6	61.908°	Site-S&M,recalibrating,,
EVT	00/07/24	10:11:03	DLG	492622.69	5310525.70	Unknown	2196.863	2	59.097°	Site-S&M,reconfiguring sonar settings,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	10:14:20	DLG	492622.40	5310525.57	Unknown	2196.834	1.7	57.050°	Site-S&M,testing seafloor sonar imaging,,
EVT	00/07/24	10:21:38	DLG	492620.42	5310525.99	Unknown	2196.812	1.7	53.461°	Site-S&M,start recording seafloor sonar imaging P7 00G24030,,
EVT	00/07/24	10:26:45	DLG	492623.18	5310526.08	Unknown	2196.889	2	49.808°	Site-S&M,stop recording,,
EVT	00/07/24	10:37:21	DLG	492621.18	5310526.64	Unknown	2197.002	30	65.114°	Site-S&M,, DIFFUSE,"start recording D6 00G24031 diffuse sonar imaging (forward stationary), 0 degrees"
EVT	00/07/24	10:43:08	DLG	492618.72	5310525.25	Unknown	2196.953	30	61.535°	Site-S&M,"with autoheading off, JASON sitting much more stable",,
EVT	00/07/24	10:45:01	DLG	492623.03	5310525.43	Unknown	2196.974	1.9	60.910°	Site-S&M,stop recording,,
EVT	00/07/24	10:52:32	DLG	492623.66	5310526.15	Unknown	2192.447	4.5	59.546°	Site-S&M,hovering diffuse flow at 5 meters,,
EVT	00/07/24	10:53:09	DLG	492623.05	5310526.74	Unknown	2192.415	4.5	59.345°	Site-S&M,Site-S&M , DIFFUSE,start recording 00G23032
EVT	00/07/24	10:55:13	DLG	492623.65	5310525.50	Unknown	2192.370	4.6	59.057°	Site-S&M,the recording is 00G24032,,
EVT	00/07/24	10:56:00	DLG	492622.57	5310526.76	Unknown	2192.293	4.7	59.045°	Site-S&M,stop recording,,
EVT	00/07/24	11:03:24	DLG	492623.46	5310525.66	Unknown	2192.467	4.6	59.330°	Site-S&M,setting sonar,,
EVT	00/07/24	11:03:57	DLG	492623.26	5310525.50	Unknown	2192.416	4.6	59.933°	Site-S&M,gyro reset,,
EVT	00/07/24	11:10:31	DLG	492623.04	5310526.07	Unknown	2192.360	4.8	59.392°	Site-S&M,, PLUME, start recording 00G34033 hovering
EVT	00/07/24	11:11:21	DLG	492624.54	5310525.98	Unknown	2192.327	4.7	59.022°	Site-S&M,this is 00G24033,,
EVT	00/07/24	11:24:38	DLG	492624.04	5310525.01	Unknown	2192.286	4.9	60.301°	Site-S&M,changing tapes,,
EVT	00/07/24	11:27:27	DLG	492624.31	5310525.19	Unknown	2192.395	4.8	59.196°	Site-S&M,stop recording,,
EVT	00/07/24	11:28:49	DLG	492623.57	5310525.15	Unknown	2192.323	5	58.811°	Site-S&M,gyro reset,,
EVT	00/07/24	11:31:35	DLG	492624.54	5310525.46	Unknown	2192.339	4.9	59.430°	Site-S&M,, PLUME,start recording 00G24034 elevator run altitude 5 m
EVT	00/07/24	11:35:08	DLG	492624.09	5310526.52	Unknown	2183.934	13.2	59.488°	Site-S&M,going up at 2 m/min,,
EVT	00/07/24	11:42:37	DLG	492624.39	5310525.96	Unknown	2166.236	30	58.699°	Site-S&M,stop at 30 m altitude,,
EVT	00/07/24	11:43:04	DLG	492624.83	5310526.34	Unknown	2165.045	30	60.378°	Site-S&M,holding at 31.5 m altitude,,
EVT	00/07/24	11:43:38	DLG	492625.93	5310525.95	Unknown	2163.801	30	59.638°	Site-S&M,stop recording,,
EVT	00/07/24	11:46:04	DLG	492624.10	5310525.87	Unknown	2162.108	30	59.260°	Site-S&M,, PLUME,start recording 00G24035 elevator run going down
EVT	00/07/24	11:47:59	DLG	492625.11	5310526.02	Unknown	2165.856	30	58.970°	Site-S&M,going down at 2m/min,,
EVT	00/07/24	12:01:38	DLG	492624.43	5310526.86	Unknown	2192.990	4.5	59.743°	Site-S&M,stop recording,,
EVT	00/07/24	12:01:54	DLG	492624.43	5310526.86	Unknown	2192.797	4.5	58.623°	Site-S&M,gyro reset,,
EVT	00/07/24	12:06:20	DLG	492624.90	5310526.76	Unknown	2192.810	4.6	58.806°	Site-S&M,, PLUME,start recording P2 00G24036 elevator run going up from altitude 5m
EVT	00/07/24	12:07:05	DLG	492624.95	5310526.21	Unknown	2191.791	5.7	60.385°	Site-S&M,going up as far as possible-2m/min,,
EVT	00/07/24	12:13:54	DLG	492624.34	5310526.96	Unknown	2175.165	22.2	59.146°	Site-S&M,stop recording-not wanted,,
EVT	00/07/24	12:14:29	DLG	492624.74	5310526.92	Unknown	2173.805	23.7	59.524°	Site-S&M,resume recording 00G24037,,
EVT	00/07/24	12:14:52	DLG	492624.74	5310526.69	Unknown	2172.934	24.5	59.432°	Site-S&M,altitude 22.3m,,
EVT	00/07/24	12:17:20	DLG	492624.95	5310525.81	Unknown	2166.927	12.6	59.535°	Site-S&M,still going up-altitude 30 m,,
EVT	00/07/24	12:18:43	DLG	492625.32	5310527.50	Unknown	2163.642	30	59.922°	Site-S&M,down to three beams,,

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EVT	00/07/24	12:20:58	DLG	492622.99	5310526.53	Unknown	2161.126	30	56.898°	Site-S&M,lost all beams-36 m ,,
EVT	00/07/24	12:21:02	DLG	492622.99	5310526.53	Unknown	2161.505	30	59.300°	Site-S&M,stop recording,,
EVT	00/07/24	12:21:14	DLG	492622.99	5310526.53	Unknown	2160.980	30	58.736°	Site-S&M,going down,,
EVT	00/07/24	12:23:46	DLG	492621.17	5310528.98	Unknown	2181.728	16.3	57.932°	Site-S&M,reboot SM 2000,
EVT	00/07/24	12:25:35	DLG	492622.65	5310529.19	Unknown	2194.230	4	56.306°	Site-S&M,stop going down-2 m to bottom,
EVT	00/07/24	12:25:44	DLG	492622.03	5310530.17	Unknown	2194.490	3.8	59.180°	Site-S&M,holding position,
EVT	00/07/24	12:28:17	DLG	492622.65	5310529.37	Unknown	2192.639	5.5	53.090°	Site-S&M,recalibrate rotator,
EVT	00/07/24	12:35:21	DLG	492623.99	5310526.17	Unknown	2192.378	5.5	7.095°	Site-S&M,moving to north-west of S&M,
EVT	00/07/24	12:45:12	DLG	492625.81	5310541.35	Unknown	2183.420	13.8	322.478°	Site-S&M,SM 2000 shut down,
EVT	00/07/24	12:45:23	DLG	492625.58	5310541.64	Unknown	2183.586	13.7	320.708°	Site-S&M,rebooting,
EVT	00/07/24	12:47:17	DLG	492624.79	5310546.08	Unknown	2183.440	14.5	7.648°	heading to the NW part of S&M,,
EVT	00/07/24	12:48:58	DLG	492624.84	5310548.15	Unknown	2183.387	14.5	3.122°	recalibrating rotator,,
EVT	00/07/24	12:53:04	DLG	492626.71	5310558.05	Unknown	2188.318	8.3	167.616°	Jason's positioned 35 meters away from S&M to th NW,,
EVT	00/07/24	12:53:13	DLG	492626.71	5310558.05	Unknown	2188.390	8.3	167.679°	going to bottom,,
EVT	00/07/24	12:54:37	DLG	492626.78	5310558.54	Unknown	2193.218	3.8	167.950°	Site-S&M,VID_GRAB,pillow lavas
EVT	00/07/24	12:55:40	DLG	492628.21	5310558.30	Unknown	2193.140	3.8	167.804°	Site-S&M,setting sonar,
EVT	00/07/24	12:56:08	DLG	492627.75	5310558.49	Unknown	2193.140	3.7	167.279°	Site-S&M,going up to 10 m altitude,
EVT	00/07/24	12:57:31	DLG	492628.87	5310557.51	Unknown	2186.478	10.3	167.599°	Site-S&M,stopped at 10.9 m,
EVT	00/07/24	13:00:35	DLG	492628.01	5310558.03	Unknown	2186.336	10.4	123.384°	Site-S&M,sonar looking at SE,
EVT	00/07/24	13:05:47	DLG	492629.51	5310557.57	Unknown	2186.474	10.2	118.848°	Site-S&M,gyro reset,,
EVT	00/07/24	13:08:13	DLG	492629.00	5310557.71	Unknown	2186.374	10.2	117.638°	Site-S&M,setting sonar,,
EVT	00/07/24	13:11:41	DLG	492629.09	5310557.87	Unknown	2186.403	10.2	117.448°	Site-S&M,, PLUME,start recording D2 00G24038 hovering
EVT	00/07/24	13:12:03	DLG	492627.71	5310558.82	Unknown	2186.452	10.4	116.962°	Site-S&M,stop recording-wrong file name,,
EVT	00/07/24	13:14:24	DLG	492628.55	5310557.56	Unknown	2186.355	10.4	117.020°	Site-S&M,resume recording 00G24039 hovering,,
EVT	00/07/24	13:19:28	DLG	492629.48	5310557.37	Unknown	2186.517	10.2	116.803°	Site-S&M,pause on the recording,,
EVT	00/07/24	13:19:42	DLG	492629.10	5310557.40	Unknown	2186.463	10.3	117.397°	Site-S&M,moving forward 10 m,,
EVT	00/07/24	13:19:58	DLG	492630.41	5310556.90	Unknown	2186.470	10.4	117.350°	Site-S&M,heading SE,,
EVT	00/07/24	13:23:38	DLG	492637.87	5310551.33	Unknown	2186.386	11.3	117.300°	Site-S&M,stop moving ,,
EVT	00/07/24	13:24:23	DLG	492638.26	5310551.47	Unknown	2186.539	11.2	117.403°	Site-S&M,resume recording 00G24039 hovering,,
EVT	00/07/24	13:26:48	DLG	492637.51	5310551.82	Unknown	2186.432	11.3	117.274°	Site-S&M,stop recording,,
EVT	00/07/24	13:29:39	DLG	492637.32	5310551.28	Unknown	2186.380	11.6	177.654°	Site-S&M,heading south,,
EVT	00/07/24	13:30:57	DLG	492637.91	5310551.57	Unknown	2186.388	11.8	178.184°	Site-S&M,holding position,,
EVT	00/07/24	13:32:31	DLG	492637.26	5310551.50	Unknown	2186.455	11.4	177.814°	Site-S&M,setting sonar,,
EVT	00/07/24	13:35:50	DLG	492638.06	5310551.35	Unknown	2186.412	11.7	177.562°	Site-S&M,, DIFFUSE,start recording D2 00G24040
EVT	00/07/24	13:37:31	DLG	492637.55	5310551.22	Unknown	2186.494	11.4	177.740°	Site-S&M,recording paused ,,
EVT	00/07/24	13:37:40	DLG	492636.99	5310551.28	Unknown	2186.448	11.3	177.625°	Site-S&M,moving 10 m south
EVT	00/07/24	13:40:23	DLG	492637.06	5310541.26	Unknown	2186.468	11.3	177.418°	Site-S&M,holding position
EVT	00/07/24	13:40:36	DLG	492637.06	5310541.26	Unknown	2186.414	11.3	177.576°	Site-S&M,resume recording 00G24040
EVT	00/07/24	13:41:49	DLG	492637.00	5310541.09	Unknown	2186.421	11.4	176.959°	Site-S&M,looking at a currentmeter
EVT	00/07/24	13:42:36	DLG	492636.85	5310541.58	Unknown	2186.435	11.3	177.565°	Site-S&M,recording paused

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	13:42:47	DLG	492636.52	5310541.88	Unknown	2186.468	11.3	177.112°	Site-S&M,moving 10 m south
EVT	00/07/24	13:46:04	DLG	492636.26	5310530.77	Unknown	2186.301	11	177.242°	Site-S&M,stop moving
EVT	00/07/24	13:46:14	DLG	492636.26	5310530.77	Unknown	2186.355	10.9	177.782°	Site-S&M,holding position
EVT	00/07/24	13:46:24	DLG	492635.16	5310531.69	Unknown	2186.375	11	177.182°	Site-S&M,resume recording
EVT	00/07/24	13:46:41	DLG	492637.63	5310530.37	Unknown	2186.341	9.3	177.833°	Site-S&M,00G24040 hovering
EVT	00/07/24	13:47:55	DLG	492637.51	5310530.65	Unknown	2186.362	10.9	177.388°	Site-S&M,recording paused
EVT	00/07/24	13:48:17	DLG	492635.90	5310531.49	Unknown	2186.488	10.9	178.004°	Site-S&M,moving another 10 m south
EVT	00/07/24	13:50:27	DLG	492637.31	5310530.96	Unknown	2186.421	10.8	177.720°	Site-S&M,holding position
EVT	00/07/24	13:54:42	DLG	492635.73	5310531.45	Unknown	2186.368	11	177.157°	Site-S&M,gyro reset
EVT	00/07/24	13:55:25	DLG	492635.99	5310530.06	Unknown	2186.514	10.8	178.543°	Site-S&M,moving 10 m ahead now-not at 13:48
EVT	00/07/24	13:56:57	DLG	492634.36	5310522.87	Unknown	2186.442	11	178.991°	Site-S&M,S&M 10m east of Jason now
EVT	00/07/24	13:58:21	DLG	492635.61	5310520.80	Unknown	2186.455	11.2	177.878°	Site-S&M,stop moving
EVT	00/07/24	13:58:38	DLG	492635.50	5310520.94	Unknown	2186.442	11.1	178.267°	Site-S&M,resume recording 00G24040 hovering
EVT	00/07/24	13:59:00	DLG	492635.48	5310521.43	Unknown	2186.388	11.1	177.606°	Site-S&M,looking south
EVT	00/07/24	14:00:23	DLG	492635.95	5310520.86	Unknown	2186.368	11.1	177.772°	Site-S&M,pausing recording
EVT	00/07/24	14:00:36	DLG	492635.95	5310520.86	Unknown	2186.493	11	175.608°	Site-S&M,gyro reset
EVT	00/07/24	14:00:47	DLG	492634.00	5310521.65	Unknown	2186.429	10.9	177.531°	Site-S&M,moving 10 m south
EVT	00/07/24	14:03:29	DLG	492633.88	5310510.65	Unknown	2186.506	10.8	177.899°	Site-S&M,positioned
EVT	00/07/24	14:03:45	DLG	492634.40	5310510.73	Unknown	2186.585	10.9	178.001°	Site-S&M,resume recording 00G24040
EVT	00/07/24	14:06:16	DLG	492634.33	5310510.79	Unknown	2186.337	11	178.491°	Site-S&M,recording paused
EVT	00/07/24	14:06:24	DLG	492633.84	5310510.95	Unknown	2186.383	11	178.313°	Site-S&M,moving 10 m south
EVT	00/07/24	14:07:08	DLG	492633.22	5310511.51	Unknown	2186.457	10.9	178.599°	Site-S&M,altitude around 11 m-waiting for medea to catch up
EVT	00/07/24	14:08:00	DLG	492634.03	5310509.84	Unknown	2186.450	11	176.845°	Site-S&M,moving south now-not at 14:06
EVT	00/07/24	14:08:10	DLG	492634.03	5310509.84	Unknown	2186.450	10.9	176.990°	Site-S&M,SM 2000 crashed
EVT	00/07/24	14:08:15	DLG	492634.03	5310509.84	Unknown	2186.470	10.9	176.780°	Site-S&M,rebooting
EVT	00/07/24	14:10:23	DLG	492632.58	5310500.61	Unknown	2186.450	11.1	177.622°	Site-S&M,move's over
EVT	00/07/24	14:16:50	DLG	492633.69	5310500.86	Unknown	2186.503	11	178.450°	Site-S&M,holding position
EVT	00/07/24	14:17:12	DLG	492633.37	5310501.06	Unknown	2186.383	11.2	177.944°	Site-S&M,setting sonar,,
EVT	00/07/24	14:18:58	DLG	492634.16	5310501.81	Unknown	2186.331	11.1	178.568°	Site-S&M,moving 10 meter north, DIFFUSE,start recording D2 00G24040 (new one-the first one was lost with crash)
EVT	00/07/24	14:19:18	DLG	492633.25	5310503.43	Unknown	2186.390	11.1	178.441°	Site-S&M,recording's not started yet,,
EVT	00/07/24	14:21:38	DLG	492634.57	5310511.26	Unknown	2186.497	10.9	178.545°	Site-S&M,move' done,,
EVT	00/07/24	14:22:01	DLG	492634.39	5310510.73	Unknown	2186.457	10.9	177.310°	Site-S&M, start recording 00G24040 now,,
EVT	00/07/24	14:25:00	DLG	492634.34	5310510.75	Unknown	2186.441	10.7	177.998°	Site-S&M,stop recording,,
EVT	00/07/24	14:25:41	DLG	492634.24	5310508.86	Unknown	2186.201	11.1	177.676°	Site-S&M,moving 10 meter south,,
EVT	00/07/24	14:28:51	DLG	492635.09	5310499.77	Unknown	2186.314	11.2	178.309°	stop moving,,
EVT	00/07/24	14:28:58	DLG	492633.80	5310500.50	Unknown	2186.286	11.2	177.539°	setting sonar,,
EVT	00/07/24	14:30:19	DLG	492634.98	5310500.17	Unknown	2186.379	11.2	178.416°	, DIFFUSE,start recording 00G24042,
EVT	00/07/24	14:31:27	DLG	492635.40	5310499.93	Unknown	2186.286	11.3	177.463°	I guess the new 40 th was named 41 th,,
EVT	00/07/24	14:32:32	DLG	492634.51	5310500.29	Unknown	2186.304	11.2	177.837°	stop recording,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	14:33:00	DLG	492634.00	5310497.81	Unknown	2186.190	11.2	177.137°	moving 10 m forward-straight south,,
EVT	00/07/24	14:35:12	DLG	492633.43	5310489.98	Unknown	2186.237	11.4	177.616°	between Milli-Q and Tara,,
EVT	00/07/24	14:37:13	DLG	492633.27	5310490.05	Unknown	2186.227	11.4	177.427°	stop moving,,
EVT	00/07/24	14:38:01	DLG	492633.15	5310489.53	Unknown	2186.348	11.2	177.766°	, DIFFUSE, strat recording 00G24043,
EVT	00/07/24	14:40:37	DLG	492633.30	5310489.86	Unknown	2186.354	11.2	177.886°	SM 2000 crashed,,
EVT	00/07/24	14:40:44	DLG	492633.30	5310489.86	Unknown	2186.301	11.4	177.931°	rebooting,,
EVT	00/07/24	14:44:26	DLG	492633.46	5310489.79	Unknown	2186.177	11.5	177.697°	recalibrating rotator,,
EVT	00/07/24	14:44:50	DLG	492633.46	5310489.92	Unknown	2186.283	11.4	179.435°	gyro reset,,
EVT	00/07/24	14:46:47	DLG	492633.29	5310490.05	Unknown	2186.437	11.2	177.959°	, DIFFUSE, strat recording 00G24044
EVT	00/07/24	14:48:52	DLG	492633.86	5310490.52	Unknown	2186.337	11.2	178.005°	stop recording,,
EVT	00/07/24	14:51:47	DLG	492632.37	5310476.73	Unknown	2186.234	10.9	177.099°	change of logger- shashank,,
EVT	00/07/24	14:55:30	DLG	492630.38	5310469.76	Unknown	2186.376	10.5	177.787°	had stopped sonar recording.. now started again,,
EVT	00/07/24	14:57:54	DLG	492630.68	5310469.32	Unknown	2186.434	10.5	177.946°	stopped sonar,,
EVT	00/07/24	14:59:21	DLG	492630.70	5310469.64	Unknown	2186.459	10.4	177.835°	stopped sonar again ,,
EVT	00/07/24	15:02:14	DLG	492631.46	5310469.63	Unknown	2186.470	10.4	178.060°	we're now 20m N of MilliQ...,
EVT	00/07/24	15:03:32	DLG	492631.11	5310469.81	Unknown	2186.403	10.5	178.108°	deciding what to do next...,
EVT	00/07/24	15:05:31	DLG	492631.75	5310474.33	Unknown	2195.022	2.2	241.778°	can see ocean floor,,
EVT	00/07/24	15:06:26	DLG	492624.86	5310477.41	Unknown	2195.522	1.6	244.819°	VID_GRAB, looks like a weight,
EVT	00/07/24	15:07:12	DLG	492622.67	5310476.45	Unknown	2195.020	2.2	170.369°	fish,,
EVT	00/07/24	15:07:32	DLG	492619.30	5310475.96	Unknown	2195.396	1.5	136.030°	red sediment,,
EVT	00/07/24	15:09:44	DLG	492571.21	5310522.12	Unknown	2190.453	5.8	137.895°	VID_GRAB, worms,,
EVT	00/07/24	15:10:08	DLG	492571.21	5310522.12	Unknown	2185.433	10.1	137.867°	looks like milliQ,,
EVT	00/07/24	15:14:17	DLG	492622.02	5310477.97	Unknown	2193.813	3.9	280.264°	we're going to do a reconnaissance of the vent group centered on Bastillo,,
EVT	00/07/24	15:14:27	DLG	492622.02	5310477.97	Unknown	2193.774	3.4	279.859°	... going clockwise,,
EVT	00/07/24	15:14:44	DLG	492622.02	5310477.97	Unknown	2193.133	3.2	279.523°	(that was Bastille),,
EVT	00/07/24	15:16:18	DLG	492615.11	5310467.19	Unknown	2195.091	2.9	167.860°	tower like structure,,
EVT	00/07/24	15:16:29	DLG	492615.11	5310467.19	Unknown	2195.165	2.5	168.396°	dead chimneys,,
EVT	00/07/24	15:19:32	DLG	492601.94	5310472.45	Unknown	2193.600	3.5	261.072°	VID_GRAB, chimneys,,
EVT	00/07/24	15:19:48	DLG	492596.98	5310476.57	Unknown	2193.334	3.7	260.850°	, PLUME, smoker,
EVT	00/07/24	15:21:17	DLG	492590.11	5310479.68	Unknown	2191.961	6.1	273.215°	VID_GRAB, chimney,,
EVT	00/07/24	15:21:49	DLG	492588.71	5310483.26	Unknown	2191.596	4.9	280.194°	VID_GRAB,, PLUME, smoker
EVT	00/07/24	15:22:14	DLG	492589.27	5310483.60	Unknown	2190.044	5.7	280.865°	VID_GRAB, more smokers,,
EVT	00/07/24	15:22:50	DLG	492588.95	5310484.35	Unknown	2188.602	7.7	280.756°	VID_GRAB,,
EVT	00/07/24	15:23:18	DLG	492589.72	5310482.20	Unknown	2190.018	6.6	282.912°	looks great!!!,,
EVT	00/07/24	15:23:22	DLG	492589.72	5310482.20	Unknown	2190.344	7	282.416°	holy smokes!!!,,
EVT	00/07/24	15:24:03	DLG	492586.10	5310483.14	Unknown	2192.910	4.9	247.752°	almost 12m tall,,
EVT	00/07/24	15:24:27	DLG	492577.20	5310484.58	Unknown	2195.950	4.4	229.946°	looks like its coming up from the western wall,,
EVT	00/07/24	15:24:57	DLG	492577.20	5310484.58	Unknown	2199.232	1.9	242.797°	the wall should be to west of us,,
EVT	00/07/24	15:25:46	DLG	492570.19	5310492.01	Unknown	2197.434	3.2	210.591°	some yellow object,,
EVT	00/07/24	15:26:19	DLG	492562.58	5310493.64	Unknown	2194.332	3.1	191.595°	no6 is puffer...,
EVT	00/07/24	15:26:40	DLG	492558.86	5310493.55	Unknown	2193.398	3.1	194.431°	VID_GRAB,,
EVT	00/07/24	15:26:48	DLG	492558.86	5310493.55	Unknown	2192.482	3.4	191.417°	yellow object,,
EVT	00/07/24	15:27:39	DLG	492551.61	5310490.23	Unknown	2191.962	1.6	190.605°	the object....SEACLIFF / TURTLE

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
										weight,,,
EVT	00/07/24	15:28:11	DLG	492550.82	5310489.19	Unknown	2191.284	1.8	191.564°	VID_GRAB,talus,,
EVT	00/07/24	15:28:31	DLG	492549.20	5310488.26	Unknown	2190.764	1.6	193.150°	we're going up the talus slope...gradient possibly 30 degrees,,, crab,,,
EVT	00/07/24	15:29:21	DLG	492544.55	5310487.41	Unknown	2186.889	3.1	189.197°	
EVT	00/07/24	15:29:45	DLG	492540.82	5310486.48	Unknown	2186.143	1.8	192.926°	we hit the rocks,,,
EVT	00/07/24	15:31:01	DLG	492533.24	5310484.75	Unknown	2179.282	4.4	191.665°	looks great...like ruins,,,
EVT	00/07/24	15:34:21	DLG	492520.36	5310488.80	Unknown	2174.777	0.7	330.321°	some diffused flow...shimmering water,,, brown sediment,,,
EVT	00/07/24	15:34:54	DLG	492522.28	5310489.05	Unknown	2174.677	0.7	329.958°	
EVT	00/07/24	15:35:17	DLG	492522.52	5310489.46	Unknown	2174.284	1.3	27.017°	VID_GRAB,, DIFFUSE,brown sediment
EVT	00/07/24	15:35:28	DLG	492522.52	5310489.46	Unknown	2175.622	0.8	34.277°	, DIFFUSE,shimmering water,
EVT	00/07/24	15:35:57	DLG	492524.03	5310487.27	Unknown	2175.269	1.3	343.655°	backing up to the diffused flow,
EVT	00/07/24	15:36:00	DLG	492522.43	5310487.67	Unknown	2174.876	1.2	340.084°	octopus,
EVT	00/07/24	15:36:18	DLG	492524.00	5310488.96	Unknown	2174.464	1.4	359.258°	VID_GRAB,octopus
EVT	00/07/24	15:37:18	DLG	492520.83	5310490.62	Unknown	2171.872	1.7	359.426°	sediment all over the place,
EVT	00/07/24	15:39:01	DLG	492523.98	5310487.97	Unknown	2174.151	2.4	262.524°	brown sediment,
EVT	00/07/24	15:39:13	DLG	492523.98	5310487.97	Unknown	2174.480	2	262.158°	VID_GRAB,sediment
EVT	00/07/24	15:40:02	DLG	492522.81	5310489.48	Unknown	2174.619	1.5	261.834°	VID_GRAB,some more sediment
EVT	00/07/24	15:40:24	DLG	492522.61	5310489.02	Unknown	2174.459	1.9	262.677°	gyro reset,
EVT	00/07/24	15:41:30	DLG	492523.37	5310488.12	Unknown	2174.265	1.6	347.599°	VID_GRAB,sediment
EVT	00/07/24	15:48:01	DLG	492546.03	5310507.58	Unknown	2183.703	1.5	340.768°	starfish,
EVT	00/07/24	15:48:49	DLG	492546.21	5310510.17	Unknown	2182.168	2.2	321.309°	fish,
EVT	00/07/24	15:51:58	DLG	492544.69	5310513.49	Unknown	2183.015	0.9	46.079°	slight shake,
EVT	00/07/24	15:52:47	DLG	492543.69	5310515.23	Unknown	2180.366	3.9	213.560°	VID_GRAB,smoke
EVT	00/07/24	15:53:03	DLG	492542.85	5310516.65	Unknown	2181.232	4	190.505°	looks like a thin smoke line,
EVT	00/07/24	15:53:36	DLG	492546.23	5310516.05	Unknown	2182.406	2.9	187.945°	not able to find source of smoke,
EVT	00/07/24	15:58:01	DLG	492562.10	5310522.03	Unknown	2192.630	0.8	61.392°	white stuff.....,
EVT	00/07/24	15:58:18	DLG	492562.63	5310523.65	Unknown	2192.557	1	62.045°	we're looking down now.....,
EVT	00/07/24	16:00:30	DLG	492564.94	5310520.34	Unknown	2194.095	1.5	4.540°	VID_GRAB,looks like bacteria,,
EVT	00/07/24	16:00:47	DLG	492565.77	5310518.95	Unknown	2193.610	1.9	356.029°	white bacteria,,,
EVT	00/07/24	16:02:58	DLG	492564.64	5310525.21	Unknown	2192.817	2	339.216°	VID_GRAB,rockss.....,
EVT	00/07/24	16:04:37	DLG	492571.72	5310524.92	Unknown	2196.904	2	69.334°	VID_GRAB,,,
EVT	00/07/24	16:04:49	DLG	492571.72	5310524.92	Unknown	2197.190	1.9	123.727°	tube worms,,,
EVT	00/07/24	16:06:02	DLG	492575.82	5310518.49	Unknown	2195.396	4.5	129.833°	thin smoke,,,
EVT	00/07/24	16:06:13	DLG	492575.82	5310518.49	Unknown	2194.204	5.6	131.426°	thick smoke,,,
EVT	00/07/24	16:07:49	DLG	492579.17	5310514.78	Unknown	2192.904	7.1	200.283°	VID_GRAB,smoker,,
EVT	00/07/24	16:08:01	DLG	492576.02	5310514.51	Unknown	2193.208	6.7	202.731°	smokers.....,
EVT	00/07/24	16:09:00	DLG	492574.28	5310509.68	Unknown	2190.711	9.3	201.891°	VID_GRAB,, PLUME,chimney with smoke
EVT	00/07/24	16:09:29	DLG	492574.69	5310508.57	Unknown	2188.673	3.5	208.461°	VID_GRAB,,,
EVT	00/07/24	16:10:58	DLG	492572.70	5310506.80	Unknown	2187.226	14.1	269.673°	maybe peanut,
EVT	00/07/24	16:12:55	DLG	492585.71	5310516.35	Unknown	2191.702	6	31.946°	looking down at spirals,,,
EVT	00/07/24	16:13:08	DLG	492591.37	5310517.95	Unknown	2192.022	1.7	44.541°	two large spirals..each about 6m,,,
EVT	00/07/24	16:14:40	DLG	492599.20	5310512.47	Unknown	2187.301	5.4	97.898°	lots of red stuff on roks,,,
EVT	00/07/24	16:14:45	DLG	492599.20	5310512.47	Unknown	2186.869	5.9	88.588°	chimny,
EVT	00/07/24	16:14:55	DLG	492599.20	5310512.47	Unknown	2186.542	6.5	87.394°	(dead),
EVT	00/07/24	16:16:24	DLG	492601.10	5310514.09	Unknown	2185.155	6.6	97.694°	VID_GRAB,spires..

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	16:17:06	DLG	492603.83	5310512.25	Unknown	2183.263	10.2	108.201°	VID_GRAB,smoking chimneys
EVT	00/07/24	16:17:25	DLG	492605.09	5310513.75	Unknown	2181.542	9.5	108.035°	looks like propped up rocks.,
EVT	00/07/24	16:17:42	DLG	492606.49	5310512.87	Unknown	2179.152	12.7	109.916°	MASSIVE tower,
EVT	00/07/24	16:17:52	DLG	492606.49	5310512.87	Unknown	2178.580	13.9	111.997°	keeps going up.....,
EVT	00/07/24	16:18:16	DLG	492607.10	5310512.13	Unknown	2177.313	15.5	124.777°	wow...still climbing,
EVT	00/07/24	16:18:26	DLG	492608.63	5310514.01	Unknown	2176.974	16.4	138.766°	VID_GRAB,the top at last
EVT	00/07/24	16:18:39	DLG	492608.99	5310512.22	Unknown	2177.682	15	142.548°	maybe some shimmer,
EVT	00/07/24	16:19:20	DLG	492611.43	5310509.54	Unknown	2178.505	14.4	171.979°	this has to be south of peanut.....,
EVT	00/07/24	16:19:35	DLG	492611.43	5310509.54	Unknown	2179.057	8.4	176.151°	VID_GRAB,hanging gardens....
EVT	00/07/24	16:19:48	DLG	492611.92	5310509.94	Unknown	2180.049	8.2	204.261°	we are SW of S&M,
EVT	00/07/24	16:24:05	DLG	492613.79	5310517.61	Unknown	2181.200	13.5	253.249°	just flowing along....,
EVT	00/07/24	16:28:38	DLG	492620.33	5310526.64	Unknown	2196.088	1.5	185.869°	floor....,
EVT	00/07/24	16:30:02	DLG	492614.60	5310519.51	Unknown	2193.244	2.9	187.176°	perfect for rock climbing:),
EVT	00/07/24	16:34:35	DLG	492613.93	5310502.81	Unknown	2183.776	11.5	269.380°	gyro reset,
EVT	00/07/24	16:35:03	DLG	492613.53	5310503.62	Unknown	2181.786	14	264.178°	is it tara????,
EVT	00/07/24	16:35:22	DLG	492613.40	5310505.02	Unknown	2179.733	16.4	262.668°	VID_GRAB,massive guy
EVT	00/07/24	16:36:33	DLG	492613.59	5310498.76	Unknown	2183.909	11.2	179.375°	VID_GRAB,worms...
EVT	00/07/24	16:36:41	DLG	492611.18	5310497.93	Unknown	2182.773	12.1	182.338°	there's the smoker,
EVT	00/07/24	16:36:54	DLG	492611.18	5310497.93	Unknown	2182.724	12.3	183.157°	VID_GRAB,smokers..
EVT	00/07/24	16:37:16	DLG	492611.64	5310498.21	Unknown	2182.634	12.6	179.158°	just SW of SULLY,
EVT	00/07/24	16:40:37	DLG	492629.05	5310484.96	Unknown	2195.542	1.4	7.931°	two crabs,
EVT	00/07/24	16:41:21	DLG	492636.55	5310493.32	Unknown	2196.082	1.6	294.389°	looks like a crack....,
EVT	00/07/24	16:41:34	DLG	492636.55	5310493.32	Unknown	2195.580	2.1	294.261°	sheet flow....,
EVT	00/07/24	16:43:30	DLG	492627.80	5310500.09	Unknown	2195.595	1.6	262.225°	brown ground,
EVT	00/07/24	16:44:28	DLG	492614.27	5310504.19	Unknown	2190.625	5.7	285.165°	wow...an overhang,
EVT	00/07/24	16:45:09	DLG	492611.82	5310504.68	Unknown	2187.177	7.2	279.724°	VID_GRAB,worms on rock
EVT	00/07/24	16:45:25	DLG	492611.21	5310504.70	Unknown	2184.850	9.5	278.576°	one more huge one....,
EVT	00/07/24	16:48:52	DLG	492602.94	5310487.09	Unknown	2174.329	19.7	57.123°	going through a wall of blurred water,
EVT	00/07/24	16:49:54	DLG	492606.62	5310483.17	Unknown	2181.999	14.6	95.893°	can see blobs of light...looks like an aeroplane landing at night..,
EVT	00/07/24	16:52:00	DLG	492621.60	5310480.34	Unknown	2194.272	2.5	287.114°	the vast emptiness of the seas dotted with abundant life.....,
EVT	00/07/24	16:52:17	DLG	492621.60	5310480.34	Unknown	2193.278	3.5	274.385°	ok....we've some formations,
EVT	00/07/24	16:52:50	DLG	492615.46	5310486.29	Unknown	2189.860	5.5	275.714°	going up a tower,
EVT	00/07/24	16:53:20	DLG	492616.46	5310487.13	Unknown	2186.192	9.2	275.951°	up,up.....,
EVT	00/07/24	16:53:43	DLG	492616.92	5310489.06	Unknown	2184.381	10.8	272.873°	can see the top of another tower,
EVT	00/07/24	16:57:35	DLG	492595.70	5310492.14	Unknown	2188.411	9.3	199.132°	looks like a tree stump,
EVT	00/07/24	16:57:55	DLG	492592.66	5310490.31	Unknown	2188.977	8	128.253°	that was puffer.,
EVT	00/07/24	17:00:04	DLG	492599.99	5310474.19	Unknown	2191.586	1.9	83.523°	looking down a tower,
EVT	00/07/24	17:06:53	DLG	492598.08	5310493.21	Unknown	2192.716	5.4	264.943°	VID_GRAB,smokers
EVT	00/07/24	17:10:08	DLG	492585.13	5310481.50	Unknown	2190.125	7.8	92.214°	gyro reset,
EVT	00/07/24	17:10:48	DLG	492587.26	5310477.11	Unknown	2189.911	6	29.099°	something there....,
EVT	00/07/24	17:11:26	DLG	492598.00	5310477.62	Unknown	2189.902	6.1	28.501°	VID_GRAB,looks like ..some rubber tube.etc..
EVT	00/07/24	17:12:13	DLG	492594.81	5310477.42	Unknown	2188.374	7.8	38.091°	smokers...thick smoke.,
EVT	00/07/24	17:12:35	DLG	492597.67	5310478.67	Unknown	2189.165	5.9	39.542°	VID_GRAB,thick smoke
EVT	00/07/24	17:13:27	DLG	492595.98	5310479.17	Unknown	2188.586	7.6	56.545°	that smoker was sully...(?)..,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	17:13:57	DLG	492596.76	5310479.72	Unknown	2187.015	9.1	50.941°	temperature resistivity equipment next to smoker..strong venting.,
EVT	00/07/24	17:14:37	DLG	492596.00	5310480.58	Unknown	2189.571	5.4	56.622°	looks like we'll go back the orange patch...number 7.,
EVT	00/07/24	17:16:14	DLG	492590.25	5310491.74	Unknown	2192.547	5.2	271.747°	VID_GRAB,more smoke
EVT	00/07/24	17:19:04	DLG	492574.92	5310500.33	Unknown	2196.079	5.3	222.125°	crab doing stunts on rock,
EVT	00/07/24	17:19:48	DLG	492575.22	5310502.98	Unknown	2193.722	5.5	191.361°	camera changes to BRW...back to old view,
EVT	00/07/24	17:20:38	DLG	492570.40	5310493.71	Unknown	2195.047	6.6	113.498°	white stuff on ground..probably bacteria ,
EVT	00/07/24	17:25:27	DLG	492557.50	5310484.09	Unknown	2192.361	2.9	280.186°	weights all over the place.,
EVT	00/07/24	17:26:42	DLG	492543.67	5310491.79	Unknown	2184.674	3	260.711°	massive crab,
EVT	00/07/24	17:28:14	DLG	492534.04	5310484.76	Unknown	2177.061	3.3	273.176°	man...this place rocks!!,
EVT	00/07/24	17:28:30	DLG	492530.44	5310485.78	Unknown	2175.364	3.7	289.521°	yellow stuff on rocks,
EVT	00/07/24	17:28:42	DLG	492527.36	5310488.39	Unknown	2174.453	3.4	292.538°	VID_GRAB,yellow stuff..
EVT	00/07/24	17:32:19	DLG	492519.26	5310492.55	Unknown	2170.958	1.3	100.633°	we're at the spot...ther's a patch of brownish yellow sediment.,
EVT	00/07/24	17:34:32	DLG	492520.10	5310493.84	Unknown	2172.096	1.7	92.192°	we've stopped to see diffuse flow.,
EVT	00/07/24	17:44:04	DLG	492519.86	5310493.13	Unknown	2172.087	1.3	92.414°	VID_GRAB,stopped for diffuse flow measurements
EVT	00/07/24	17:46:47	DLG	492518.94	5310494.53	Unknown	2172.049	1.3	90.867°	scanning sonar,
EVT	00/07/24	17:56:28	DLG	492519.77	5310493.88	Unknown	2172.210	1.6	91.591°	shimmering waters...rocks are shimmering,
EVT	00/07/24	17:57:50	DLG	492519.98	5310495.11	Unknown	2171.726	1.1	94.242°	head secured...reposition jason NOW.,
EVT	00/07/24	18:03:32	DLG	492527.93	5310493.71	Unknown	2177.403	1.8	90.044°	stopped in another position..for sonar scanning,,
EVT	00/07/24	18:06:05	DLG	492528.53	5310493.44	Unknown	2177.287	1.8	88.724°	svanning started....,,
EVT	00/07/24	18:07:07	DLG	492526.01	5310493.39	Unknown	2177.360	1.7	88.295°	no shimmer in water....,,
EVT	00/07/24	18:11:40	DLG	492528.01	5310494.45	Unknown	2177.228	1	86.920°	rcording data now.,,
EVT	00/07/24	18:12:00	DLG	492528.93	5310493.10	Unknown	2177.181	1	87.014°	doing regular P2- statuionary plume image.,,
EVT	00/07/24	18:34:45	DLG	492526.31	5310493.46	Unknown	2177.155	1.5	89.561°	looks like we moved about two inches to the right on the ocean floor,,
EVT	00/07/24	18:46:32	DLG	492526.27	5310493.81	Unknown	2177.202	1.5	83.247°	gyro reset,,
EVT	00/07/24	19:00:13	DLG	492528.27	5310493.30	Unknown	2177.176	1.3	91.950°	stopped recording,,
EVT	00/07/24	19:15:01	DLG	492526.23	5310493.64	Unknown	2177.202	1.4	96.755°	, DIFFUSE,"start recording D6 00G24047 diffuse sonar imaging, medium transmitter power"
EVT	00/07/24	19:23:12	DLG	492528.20	5310493.23	Unknown	2177.230	1.3	98.982°	stop recording,,
EVT	00/07/24	19:24:03	DLG	492528.27	5310492.59	Unknown	2177.191	1.3	99.267°	, DIFFUSE,"start recording D6 00G24047 diffuse sonar imaging, high power"
EVT	00/07/24	19:32:03	DLG	492526.77	5310491.76	Unknown	2177.202	1.3	100.451°	stop recording,,
EVT	00/07/24	19:36:25	DLG	492528.63	5310492.20	Unknown	2177.166	1.3	100.668°	recalibrating,,
EVT	00/07/24	19:40:28	DLG	492527.94	5310492.18	Unknown	2177.177	1.3	100.286°	start recording P7 00G24049 seafloor sonar imaging, low power,,
EVT	00/07/24	19:41:45	DLG	492526.71	5310492.29	Unknown	2177.177	1.3	100.337°	terminate recordin,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	19:42:27	DLG	492526.98	5310492.21	Unknown	2177.138	1.4	100.320°	problems experienced with the sonar rotator (was not stepping), hence the termination of the recording,,
EVT	00/07/24	19:44:20	DLG	492527.72	5310493.02	Unknown	2177.157	1.3	99.956°	restarting SM2000 software,
EVT	00/07/24	19:51:00	DLG	492527.08	5310493.03	Unknown	2177.190	1.3	98.723°	setting up sonar for next series,
EVT	00/07/24	19:57:09	DLG	492527.66	5310492.81	Unknown	2177.190	2.1	95.627°	restarting SM2000 software,
EVT	00/07/24	19:59:34	DLG	492527.75	5310492.62	Unknown	2177.170	2.1	94.971°	resetting SM2000 software settings,
EVT	00/07/24	20:01:34	DLG	492527.82	5310492.36	Unknown	2177.197	1.7	95.199°	recalibrating,
EVT	00/07/24	20:04:52	DLG	492527.52	5310492.13	Unknown	2177.157	1.3	94.095°	VID_GRAB,fish
EVT	00/07/24	20:05:40	DLG	492528.89	5310491.81	Unknown	2177.251	1.3	93.622°	VID_GRAB,fish in rocks
EVT	00/07/24	20:07:25	DLG	492529.25	5310491.45	Unknown	2177.204	1.3	92.864°	start seafloor imaging P7 00G24050,
EVT	00/07/24	20:09:58	DLG	492526.59	5310491.92	Unknown	2177.144	1.3	93.280°	VID_GRAB,cheerio shapes in water (video decks 1 and 3)
EVT	00/07/24	20:15:20	DLG	492526.43	5310492.60	Unknown	2177.157	1.3	93.756°	start recording seafloor imaging P7 00G24051,
EVT	00/07/24	20:22:34	DLG	492526.65	5310492.14	Unknown	2177.166	1.4	93.277°	stop recording,
EVT	00/07/24	20:31:13	DLG	492527.86	5310491.87	Unknown	2177.275	1.5	90.894°	start recording seafloor sonar imaging P7 00G24052, high power, adjustment to time varying gain,
EVT	00/07/24	20:40:06	DLG	492527.24	5310492.76	Unknown	2177.249	1.8	90.027°	stop recording,
EVT	00/07/24	20:44:05	DLG	492526.88	5310491.72	Unknown	2177.318	1.3	89.546°	recalibrating,
EVT	00/07/24	20:44:44	DLG	492527.28	5310492.09	Unknown	2177.344	1.3	89.647°	VID_GRAB,crab moving towards JASON
EVT	00/07/24	20:45:39	DLG	492526.71	5310492.89	Unknown	2177.230	1.3	89.461°	VID_GRAB,crab advancing on JASON
EVT	00/07/24	20:48:55	DLG	492527.09	5310492.30	Unknown	2177.284	1.3	88.776°	VID_GRAB,approaching crab,
EVT	00/07/24	20:51:33	DLG	492526.69	5310491.84	Unknown	2177.320	1.3	88.430°	VID_GRAB,crab approaching,
EVT	00/07/24	20:53:31	DLG	492527.37	5310492.02	Unknown	2177.300	1.3	88.294°	, PLUME,"start recording P3 00G24053 doppler plume sonar imaging
EVT	00/07/24	20:53:54	DLG	492527.55	5310492.19	Unknown	2177.320	1.3	88.203°	VID_GRAB,crab at JASON,
EVT	00/07/24	21:00:24	DLG	492527.12	5310491.34	Unknown	2177.362	1.3	86.671°	VID_GRAB,crab leaving JASON,
EVT	00/07/24	21:09:25	DLG	492526.83	5310492.28	Unknown	2177.324	1.3	83.606°	adjusting sonar settings,,
EVT	00/07/24	21:11:20	DLG	492527.52	5310491.70	Unknown	2177.358	1.3	82.730°	, PLUME,"start recording plume sonar P3 00G24054, time varying gain adjusted"
EVT	00/07/24	21:25:29	DLG	492526.96	5310491.56	Unknown	2177.520	1.3	81.239°	VID_GRAB,interesting creature passing by JASON,
EVT	00/07/24	21:34:06	DLG	492527.09	5310491.89	Unknown	2177.510	1.8	79.452°	VID_GRAB,shrimp passing by the ROV,
EVT	00/07/24	21:41:31	DLG	492526.79	5310491.80	Unknown	2177.579	1.3	77.621°	stop recording,,
EVT	00/07/24	21:46:10	DLG	492527.18	5310491.75	Unknown	2177.602	1.3	77.240°	, PLUME,"start recording P3 00G24055 plume sonar imaging, time varying gain adjusted back"
EVT	00/07/24	22:00:02	DLG	492527.68	5310492.24	Unknown	2177.693	1.3	95.514°	stop recording,,
EVT	00/07/24	22:01:13	DLG	492527.68	5310492.24	Unknown	2177.666	1.3	94.990°	planning to move off slope, turn around to image diffuse flow currently behind JASON,,
EVT	00/07/24	22:17:03	DLG	492527.68	5310492.24	Unknown	2177.826	1.3	92.115°	start recording passive sonar imaging 00G24056 (stationary),,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/24	22:19:46	DLG	492527.68	5310492.24	Unknown	2177.897	1.4	90.478°	stop recordin,,
EVT	00/07/24	22:30:41	DLG	492527.68	5310492.24	Unknown	2177.815	1.3	89.044°	restarting SM2000 software,,
EVT	00/07/24	22:39:20	DLG	492526.67	5310493.43	Unknown	2172.541	4.9	95.442°	, DIFFUSE,"start recording diffuse sonar imaging D1 00G24057, HOVERING"
EVT	00/07/24	22:40:25	DLG	492526.36	5310493.74	Unknown	2172.527	4.9	95.026°	unidentified cheerio shaped obejts appeared in aft camera (video decks 1 and 3), intensified when JASON rose,,
EVT	00/07/24	22:42:31	DLG	492525.88	5310493.64	Unknown	2172.483	4.7	94.624°	stopped recording,,
EVT	00/07/24	22:42:36	DLG	492525.88	5310493.64	Unknown	2172.503	4.8	95.004°	recalibrating,,
EVT	00/07/24	22:45:59	DLG	492525.50	5310493.97	Unknown	2172.417	5	95.531°	, PLUME,"start recording plume sonar imaging P1 00G24058, hovering"
EVT	00/07/24	22:51:02	DLG	492526.61	5310493.79	Unknown	2172.488	5	94.484°	stop recording,,
EVT	00/07/24	22:53:10	DLG	492526.59	5310494.72	Unknown	2172.486	5.5	148.504°	doing a 360 ,,
EVT	00/07/24	22:54:55	DLG	492525.91	5310494.64	Unknown	2172.468	6.2	275.627°	VID_GRAB, looking east,
EVT	00/07/24	22:55:12	DLG	492526.44	5310494.63	Unknown	2172.595	6.1	275.838°	VID_GRAB,looking west,
EVT	00/07/24	22:57:47	DLG	492521.78	5310496.51	Unknown	2172.571	3.8	274.690°	VID_GRAB,straight ahead,
EVT	00/07/24	22:59:25	DLG	492521.77	5310497.33	Unknown	2170.543	6	275.819°	turning around to back off 20m,,
EVT	00/07/24	23:00:48	DLG	492526.63	5310496.04	Unknown	2170.579	9.3	274.206°	setting sonar,,
EVT	00/07/24	23:04:19	DLG	492539.93	5310498.65	Unknown	2170.413	11.8	74.541°	sonar's not pinging,,
EVT	00/07/24	23:04:33	DLG	492539.93	5310498.65	Unknown	2170.446	12.2	77.683°	adjusting TGV,,
EVT	00/07/24	23:05:33	DLG	492544.44	5310500.30	Unknown	2170.628	15.6	75.415°	sonar is pinging-there's just nothing there,,
EVT	00/07/24	23:07:21	DLG	492550.06	5310500.74	Unknown	2170.509	17.3	331.794°	20 meters away from 7 mark on the screen,,
EVT	00/07/24	23:08:51	DLG	492547.48	5310501.96	Unknown	2170.351	18.2	258.800°	, DIFFUSE,start recording D2 00G24059
EVT	00/07/24	23:10:49	DLG	492548.33	5310501.74	Unknown	2170.418	19.1	259.958°	VID_GRAB, diffuse flow near cannaport,
EVT	00/07/24	23:11:29	DLG	492548.34	5310502.30	Unknown	2170.378	19.2	257.747°	stop recording,,
EVT	00/07/24	23:13:49	DLG	492549.64	5310502.10	Unknown	2170.517	19.1	258.600°	we're west of peanut,,
EVT	00/07/24	23:14:24	DLG	492545.42	5310502.28	Unknown	2170.591	15.3	257.197°	going south ,,
EVT	00/07/24	23:17:23	DLG	492534.71	5310495.22	Unknown	2170.657	10.5	167.875°	rotating sonar,,
EVT	00/07/24	23:44:34	DLG	492548.67	5310434.53	Unknown	2170.602	18.2	118.150°	VID_GRAB,smoke,
EVT	00/07/24	23:46:43	DLG	492555.48	5310430.47	Unknown	2175.459	10.1	118.158°	heading to Milli-Q,,
EVT	00/07/24	23:47:06	DLG	492555.50	5310428.77	Unknown	2175.492	10	118.373°	over cantilever,,
EVT	00/07/24	23:50:42	DLG	492569.73	5310415.83	Unknown	2175.406	19.9	118.641°	looking at Salut,,
EVT	00/07/24	23:54:10	DLG	492577.43	5310409.86	Unknown	2175.463	22.7	28.650°	turning towards NE,,
EVT	00/07/24	23:57:12	DLG	492574.16	5310409.63	Unknown	2180.644	18.4	39.283°	holding position altitude around 20m,,
EVT	00/07/24	23:57:37	DLG	492574.88	5310409.51	Unknown	2181.070	18.2	36.877°	going down 5m,,
EVT	00/07/24	23:59:07	DLG	492577.97	5310410.89	Unknown	2185.490	13.5	129.068°	moving 10m south and 10m east,,

Event Log VIP 2000 Cruise 7/25/00

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	00:06:24	DLG	492594.0	5310420.44	Unknown	2188.162	10.5	39.085°	stop moving ,
EVT	00/07/25	00:06:58	DLG	492595.0	5310420.17	Unknown	2188.182	10.4	38.476°	about 30 to Milli-Q,
EVT	00/07/25	00:07:44	DLG	492594.8	5310419.45	Unknown	2188.248	10.4	7.641°	rotating towards north,
EVT	00/07/25	00:07:52	DLG	492594.8	5310419.45	Unknown	2188.135	10.5	6.627°	looking straight north,
EVT	00/07/25	00:12:05	DLG	492595.1	5310420.25	Unknown	2188.150	10.5	26.516°	heading NNE (25 degrees),
EVT	00/07/25	00:20:58	DLG	492597.8	5310417.57	Unknown	2185.572	2.4	53.865°	moving 10 north and 10 east,
EVT	00/07/25	00:29:16	DLG	492616.2	5310436.4	Unknown	2185.375	11.4	346.265°	pinnacle spotted, not an active smoker,
EVT	00/07/25	00:30:05	DLG	492615.0	5310437.43	Unknown	2185.375	11.3	342.318°	decision made to image Milli-Q,
EVT	00/07/25	00:31:34	DLG	492605.9	5310438.53	Unknown	2185.235	11.7	342.443°	pilot attempting to identify pinnacle (determining whether it is Milli-Q),
EVT	00/07/25	00:35:34	DLG	492604.0	5310442.19	Unknown	2188.770	9.0	5.270°	VID_GRAB,temperature probe confirming we are at Milli-Q (video deck 1 and 4)
EVT	00/07/25	00:36:48	DLG	492604.0	5310442.32	Unknown	2188.823	8.9	5.004°	VID_GRAB,"shot of temperature probe on Milli-Q, Pan and Tilt camera"
EVT	00/07/25	00:38:12	DLG	492601.8	5310441.76	Unknown	2188.787	9.0	5.187°	backing off from Milli-Q, due South 30 metres,
EVT	00/07/25	00:47:08	DLG	492621.5	5310424.17	Unknown	2188.932	9.3	143.995°	another structure sighted... possibly diffuse flow site,
EVT	00/07/25	00:48:55	DLG	492622.2	5310421.94	Unknown	2188.898	10.6	176.913°	diffuse flow observed on the structure... structure seems of significant size, larger pinnacle rising from it,
EVT	00/07/25	00:52:02	DLG	492619.6	5310409.99	Unknown	2185.809	17.1	178.545°	rotation sonar,
EVT	00/07/25	00:56:46	DLG	492618.9	5310404.87	Unknown	2190.935	15.4	27.189°	lowering to 10 m,
EVT	00/07/25	00:57:41	DLG	492618.2	5310407.07	Unknown	2195.104	10.7	29.482°	stopping at 10m-holding position,,
EVT	00/07/25	00:59:03	DLG	492617.7	5310406.84	Unknown	2195.186	10.9	31.542°	VID_GRAB,diffuse flw structure,
EVT	00/07/25	00:59:15	DLG	492617.7	5310406.84	Unknown	2195.139	10.8	31.417°	setting sonar,,
EVT	00/07/25	01:02:19	DLG	492618.7	5310407.07	Unknown	2195.186	10.8	31.233°	, DIFFUSE,start recording D2 00G24060
EVT	00/07/25	01:03:25	DLG	492618.6	5310406.83	Unknown	2195.128	10.9	30.485°	hovering infront of a diffuse flow edifice,,
EVT	00/07/25	01:04:20	DLG	492617.6	5310407.06	Unknown	2195.149	10.7	29.791°	stop recording,,
EVT	00/07/25	01:04:32	DLG	492617.6	5310407.06	Unknown	2195.195	11.1	29.163°	moving 10 m straight,,
EVT	00/07/25	01:04:45	DLG	492618.9	5310408.38	Unknown	2195.121	10.6	30.091°	heading NNE,,
EVT	00/07/25	01:05:10	DLG	492621.3	5310410.23	Unknown	2195.081	8.3	45.571°	we drifted into the structure ,,
EVT	00/07/25	01:05:25	DLG	492621.5	5310409.73	Unknown	2195.257	8.2	44.273°	going to have to lateral it,,
EVT	00/07/25	01:06:32	DLG	492629.6	5310413.21	Unknown	2195.114	8.0	46.466°	moved lateraly 3m and forward 6m,,
EVT	00/07/25	01:08:02	DLG	492631.4	5310415.25	Unknown	2195.104	8.0	31.602°	moving 3m 030 heading,,
EVT	00/07/25	01:08:39	DLG	492631.4	5310414.9	Unknown	2195.144	7.8	28.568°	, DIFFUSE,start recording D2 00G24061
EVT	00/07/25	01:10:36	DLG	492632.0	5310414.77	Unknown	2195.250	5.7	43.353°	moving 10 m heading 045,,
EVT	00/07/25	01:12:03	DLG	492639.7	5310420.8	Unknown	2195.206	9.9	43.946°	record was stop earlier,,
EVT	00/07/25	01:12:10	DLG	492639.7	5310420.8	Unknown	2195.359	9.7	44.276°	move completed,,
EVT	00/07/25	01:12:59	DLG	492640.1	5310420.59	Unknown	2195.242	9.7	58.475°	heading turned to 060,,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	01:13:33	DLG	492641.4	5310420.5	Unknown	2195.200	9.7	59.339°	, DIFFUSE,start recording D2 00G24062
EVT	00/07/25	01:13:52	DLG	492639.9	5310420.9	Unknown	2195.179	9.7	58.975°	hovering,,
EVT	00/07/25	01:14:44	DLG	492639.4	5310420.82	Unknown	2195.301	9.7	58.906°	stop recording,,
EVT	00/07/25	01:15:13	DLG	492639.6	5310420.74	Unknown	2195.200	9.7	58.926°	moving 10m straight (heading 061),,
EVT	00/07/25	01:16:25	DLG	492647.1	5310423.13	Unknown	2195.149	7.4	61.260°	another edifice,,
EVT	00/07/25	01:17:02	DLG	492649.5	5310423.65	Unknown	2193.323	9.2	59.014°	move completed,,
EVT	00/07/25	01:19:57	DLG	492645.4	5310423.29	Unknown	2193.166	9.4	58.947°	many dead edifice around,,
EVT	00/07/25	01:21:14	DLG	492645.0	5310423.47	Unknown	2193.193	9.3	59.682°	VID_GRAB,dead edifice,
EVT	00/07/25	01:22:58	DLG	492644.0	5310422.65	Unknown	2193.093	4.1	58.376°	, DIFFUSE,record 00G24063 from 0120 to 0121
EVT	00/07/25	01:23:11	DLG	492644.0	5310422.65	Unknown	2193.120	4.1	58.800°	moving 20 m now,,
EVT	00/07/25	01:24:54	DLG	492663.9	5310429.01	Unknown	2193.289	14.6	59.366°	heading 060,,
EVT	00/07/25	01:25:00	DLG	492664.3	5310430.06	Unknown	2193.209	14.3	58.471°	stop moving,,
EVT	00/07/25	01:26:42	DLG	492667.2	5310428.68	Unknown	2193.302	14.1	59.832°	planing the moves,,
EVT	00/07/25	01:32:41	DLG	492649.4	5310443.69	Unknown	2193.171	11.2	227.917°	holding position,,
EVT	00/07/25	01:34:48	DLG	492638.4	5310438.22	Unknown	2193.191	7.8	182.160°	VID_GRAB,wrong camera,
EVT	00/07/25	01:35:23	DLG	492641.3	5310438.75	Unknown	2193.197	7.9	182.558°	looking at the back of Milli-Q
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.952	8.1	175.946°	VID_GRAB
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.952	8.1	174.868°	
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.952	8.1	174.868°	
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.952	8.1	174.384°	
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.952	8.1	174.384°	
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.952	8.1	174.384°	
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.966°	
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.966°	
EVT	00/07/25	01:37:19	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.966°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.966°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.966°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.548°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.548°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.548°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.548°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.548°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.218°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.218°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.218°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.218°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.218°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	173.218°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.975°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.975°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.975°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.975°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.975°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.975°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.975°	

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.975°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.799°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.799°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.799°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.1	172.799°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.6	172.710°	
EVT	00/07/25	01:37:20	DLG	492640.1	5310449.02	Unknown	2191.859	8.6	172.710°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.859	8.6	172.710°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.859	8.6	172.710°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.534°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.534°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.534°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.534°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.534°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.358°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.358°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.358°	
EVT	00/07/25	01:37:21	DLG	492640.1	5310449.02	Unknown	2191.866	8.6	172.358°	
EVT	00/07/25	01:38:13	DLG	492637.2	5310439.46	Unknown	2191.809	8.0	178.440°	the picture was a Kadko experiment,,
EVT	00/07/25	01:40:01	DLG	492627.2	5310427.26	Unknown	2191.689	9.9	283.627°	SE of Milli-Q,,
EVT	00/07/25	01:40:24	DLG	492628.3	5310426.86	Unknown	2191.861	9.1	348.200°	VID_GRAB,Milli-Q edifice,
EVT	00/07/25	01:40:44	DLG	492628.5	5310427.5	Unknown	2191.822	6.6	24.614°	heading north ,,
EVT	00/07/25	01:41:32	DLG	492630.3	5310427.12	Unknown	2192.787	6.3	18.184°	going up 15m altitude,,
EVT	00/07/25	01:42:33	DLG	492629.5	5310427.6	Unknown	2185.852	11.4	20.174°	going to make stop and go each 20m,,
EVT	00/07/25	01:44:16	DLG	492628.5	5310427.52	Unknown	2184.188	13.4	18.808°	stoppped at 15m altitude,,
EVT	00/07/25	01:44:22	DLG	492628.6	5310427.14	Unknown	2184.028	13.6	16.065°	waiting for medea,,
EVT	00/07/25	01:47:51	DLG	492627.8	5310426.8	Unknown	2184.168	13.9	15.082°	medea's not coming over,,
EVT	00/07/25	01:48:28	DLG	492626.5	5310427.6	Unknown	2184.179	8.0	17.322°	medea's ok,,
EVT	00/07/25	01:49:02	DLG	492627.0	5310426.68	Unknown	2184.255	13.2	17.505°	, DIFFUSE,start recording D2 00G24064 hovering
EVT	00/07/25	01:49:24	DLG	492625.2	5310427.52	Unknown	2184.128	13.1	17.107°	was 00G25064,,
EVT	00/07/25	01:49:42	DLG	492627.9	5310427.58	Unknown	2184.122	13.1	16.593°	stop recording,,
EVT	00/07/25	01:50:00	DLG	492626.9	5310427.9	Unknown	2184.184	13.1	16.494°	, DIFFUSE,start recording 00G25065
EVT	00/07/25	01:51:20	DLG	492629.5	5310427.81	Unknown	2184.175	13.2	16.801°	stop recording,,
EVT	00/07/25	01:51:42	DLG	492629.0	5310428.03	Unknown	2184.197	13.1	16.337°	moving straight 20m ,,
EVT	00/07/25	01:51:49	DLG	492629.0	5310428.03	Unknown	2184.297	14.8	15.549°	heading 020,,
EVT	00/07/25	01:51:56	DLG	492629.0	5310428.03	Unknown	2184.148	14.7	15.306°	Milli-Q off left,,
EVT	00/07/25	01:53:51	DLG	492636.7	5310447.38	Unknown	2184.011	10.1	17.661°	move comptet,,
EVT	00/07/25	01:54:11	DLG	492636.8	5310446.95	Unknown	2184.135	10.4	17.118°	, DIFFUSE,start recording D2 00G25066 hovering
EVT	00/07/25	01:55:45	DLG	492636.7	5310445.87	Unknown	2184.101	10.1	16.132°	stop recording,,
EVT	00/07/25	01:56:10	DLG	492637.6	5310446.84	Unknown	2184.168	9.9	17.131°	moving 20m straight,,
EVT	00/07/25	01:58:19	DLG	492643.2	5310468.2	Unknown	2184.135	16.2	14.984°	move's completed we're past Milli-Q,,
EVT	00/07/25	01:58:30	DLG	492643.2	5310468.2	Unknown	2184.208	16.1	15.631°	holding position,,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	01:58:46	DLG	492640.8	5310472.19	Unknown	2184.148	16.0	14.177°	, DIFFUSE,start recording 00G25067
EVT	00/07/25	01:59:07	DLG	492643.7	5310468.34	Unknown	2184.266	15.9	14.331°	hovering,,
EVT	00/07/25	02:00:05	DLG	492643.4	5310468.97	Unknown	2184.201	16.0	15.894°	stop recording,,
EVT	00/07/25	02:01:16	DLG	492644.3	5310468.79	Unknown	2184.315	15.9	16.798°	, DIFFUSE,start recoding 00G25068
EVT	00/07/25	02:01:29	DLG	492643.4	5310468.47	Unknown	2184.334	16.0	17.088°	heading 023,,
EVT	00/07/25	02:02:37	DLG	492639.0	5310473.52	Unknown	2184.302	16.1	15.718°	stop recording,,
EVT	00/07/25	02:03:19	DLG	492644.0	5310468.46	Unknown	2184.348	16.1	17.086°	waiting for medea,,
EVT	00/07/25	02:03:56	DLG	492644.6	5310469.04	Unknown	2184.381	15.1	15.940°	moving 20 m straight heading 023,,
EVT	00/07/25	02:05:52	DLG	492652.0	5310486.58	Unknown	2184.248	20.9	16.470°	moving at maximum speed,,
EVT	00/07/25	02:05:57	DLG	492652.0	5310486.58	Unknown	2184.241	21.0	16.784°	stop moving,,
EVT	00/07/25	02:06:41	DLG	492652.0	5310486.39	Unknown	2184.221	20.9	15.473°	gyro reset,,
EVT	00/07/25	02:07:36	DLG	492653.1	5310486.28	Unknown	2184.508	14.9	14.188°	going down 5m,,
EVT	00/07/25	02:07:58	DLG	492651.0	5310487.75	Unknown	2188.908	16.2	14.867°	we're just south of S&M,,
EVT	00/07/25	02:08:28	DLG	492651.0	5310487.75	Unknown	2189.294	16.1	17.547°	stable at about 15 m altitude,,
EVT	00/07/25	02:08:51	DLG	492651.0	5310487.75	Unknown	2189.328	16.1	15.389°	, DIFFUSE,start recording D2 00G25069 hovering
EVT	00/07/25	02:10:05	DLG	492652.3	5310487.01	Unknown	2189.260	16.2	17.273°	stop recording,,
EVT	00/07/25	02:10:20	DLG	492651.5	5310486.65	Unknown	2189.247	16.1	16.857°	turning 180 degrees,,
EVT	00/07/25	02:11:56	DLG	492650.8	5310486.43	Unknown	2189.407	19.5	194.066°	now heading heading 195,,
EVT	00/07/25	02:12:15	DLG	492651.3	5310486.82	Unknown	2189.236	19.4	194.645°	altitude about 20m,,
EVT	00/07/25	02:13:24	DLG	492649.5	5310488.86	Unknown	2189.221	19.2	194.303°	, DIFFUSE,start recording 00G25070
EVT	00/07/25	02:14:52	DLG	492652.4	5310485.74	Unknown	2189.274	19.1	194.830°	stop recording,,
EVT	00/07/25	02:17:30	DLG	492647.9	5310491.48	Unknown	2189.383	18.5	96.655°	moving 20m east heading about 100,,
EVT	00/07/25	02:19:09	DLG	492669.2	5310480.6	Unknown	2189.369	22.1	98.815°	move's complete,,
EVT	00/07/25	02:20:06	DLG	492667.7	5310485.19	Unknown	2198.639	12.9	114.112°	going down to 15m altitude,,
EVT	00/07/25	02:21:34	DLG	492670.3	5310481.53	Unknown	2196.498	15.1	196.904°	stable at 15 m pointing south ,,
EVT	00/07/25	02:22:26	DLG	492671.0	5310481.02	Unknown	2196.321	15.2	197.250°	, DIFFUSE,start recording D2 00G25071
EVT	00/07/25	02:24:04	DLG	492670.3	5310482.11	Unknown	2196.305	15.3	197.899°	stop recording,,
EVT	00/07/25	02:28:31	DLG	492657.6	5310466.94	Unknown	2191.427	15.6	195.335°	moving 20m straight,,
EVT	00/07/25	02:28:40	DLG	492659.3	5310464.53	Unknown	2191.333	15.5	197.635°	move completed,,
EVT	00/07/25	02:29:05	DLG	492658.3	5310464.97	Unknown	2191.274	15.6	198.241°	, DIFFUSE,start recording D2 00G25072
EVT	00/07/25	02:31:02	DLG	492658.7	5310464.96	Unknown	2191.300	15.7	197.382°	stop recording,,
EVT	00/07/25	02:31:14	DLG	492658.7	5310464.96	Unknown	2191.333	15.6	198.245°	waiting for medea,,
EVT	00/07/25	02:34:33	DLG	492659.0	5310465.6	Unknown	2191.326	15.6	198.523°	moving 20 m south heading 205,,
EVT	00/07/25	02:36:48	DLG	492650.4	5310450.37	Unknown	2191.227	13.4	196.396°	move's completed,,
EVT	00/07/25	02:37:09	DLG	492649.2	5310448.29	Unknown	2189.289	14.9	197.541°	going up to 15 m altitude,,
EVT	00/07/25	02:37:39	DLG	492647.7	5310448.86	Unknown	2190.155	14.3	197.285°	stable at 15m altitude,,
EVT	00/07/25	02:37:59	DLG	492648.6	5310448.41	Unknown	2190.222	13.9	197.137°	, DIFFUSE,start recording 00G25073
EVT	00/07/25	02:38:10	DLG	492648.6	5310448.41	Unknown	2190.168	14.0	197.916°	hovering,,
EVT	00/07/25	02:39:44	DLG	492648.4	5310448.03	Unknown	2190.161	14.2	197.587°	stop recording ,,
EVT	00/07/25	02:40:34	DLG	492648.3	5310447.85	Unknown	2190.255	13.7	194.778°	moving another 20 m heading south,,
EVT	00/07/25	02:40:56	DLG	492648.3	5310448.69	Unknown	2190.235	13.2	195.524°	heading is 196 degrees,,

	date	time (GMT)	x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	02:42:47	DLG 492638.2	5310431.1	Unknown	2190.144	14.1	197.472°	move's complete,,
EVT	00/07/25	02:43:20	DLG 492636.9	5310431.27	Unknown	2188.338	16.0	198.099°	going up to 15m altitude,,
EVT	00/07/25	02:43:45	DLG 492636.4	5310431.04	Unknown	2188.238	16.5	198.266°	, DIFFUSE,start recoding 00G25074
EVT	00/07/25	02:44:57	DLG 492636.2	5310431.14	Unknown	2188.261	16.2	198.179°	stop recording,,
EVT	00/07/25	02:46:40	DLG 492640.5	5310426.69	Unknown	2188.205	16.0	197.757°	holding position ,,
EVT	00/07/25	02:51:54	DLG 492640.3	5310426.93	Unknown	2188.028	15.3	17.510°	making rotation,,
EVT	00/07/25	02:52:13	DLG 492642.2	5310426.32	Unknown	2190.530	13.2	16.485°	Vehicle rotation complete,,
EVT	00/07/25	02:52:42	DLG 492640.9	5310426.92	Unknown	2193.900	10.1	19.782°	VID_GRAB,,
EVT	00/07/25	02:53:30	DLG 492641.3	5310426.77	Unknown	2194.086	9.8	18.472°	Starting to record....,
EVT	00/07/25	02:54:29	DLG 492643.1	5310426.35	Unknown	2194.172	9.8	18.360°	Site-Milli-Q,doing diffuse flow study,
EVT	00/07/25	02:54:30	DLG 492643.1	5310426.35	Unknown	2194.172	9.8	18.049°	Site-Milli-Q,here,
EVT	00/07/25	02:54:49	DLG 492643.3	5310427	Unknown	2194.144	9.8	18.519°	Site-Milli-Q,filename of recording 75,
EVT	00/07/25	02:55:38	DLG 492642.1	5310426.82	Unknown	2194.140	9.8	18.349°	Site-Milli-Q,sitting there and recording,
EVT	00/07/25	02:57:03	DLG 492641.4	5310426.4	Unknown	2194.210	9.7	18.048°	Site-Milli-Q,Stopped recording...changed the tape of 7,
EVT	00/07/25	03:00:09	DLG 492642.7	5310426.55	Unknown	2194.197	9.8	17.725°	Site-Milli-Q,Chris is explaining something to Rona
EVT	00/07/25	03:00:32	DLG 492642.6	5310426.33	Unknown	2194.163	9.8	18.094°	Site-Milli-Q,gyro reset
EVT	00/07/25	03:07:12	DLG 492640.7	5310426.78	Unknown	2183.778	19.4	21.295°	Site-Milli-Q,the leaders are still discussing what to do next
EVT	00/07/25	03:07:19	DLG 492641.0	5310426.44	Unknown	2183.159	19.5	17.276°	Site-Milli-Q,there are a lot of ideas
EVT	00/07/25	03:09:14	DLG 492642.1	5310426.99	Unknown	2183.279	19.4	29.431°	Site-Milli-Q,looks like they reached a decision....rather
EVT	00/07/25	03:09:24	DLG 492641.9	5310427.18	Unknown	2183.192	19.3	27.955°	Site-Milli-Q,sorta.....
EVT	00/07/25	03:11:05	DLG 492640.7	5310426.54	Unknown	2183.218	19.3	28.901°	Site-Milli-Q,Dr.Rona is explaining something to the Pilot..Martin
EVT	00/07/25	03:13:12	DLG 492641.9	5310427.37	Unknown	2183.312	19.9	19.271°	Site-Milli-Q,
EVT	00/07/25	03:13:30	DLG 492640.5	5310427.45	Unknown	2183.279	19.7	19.041°	Site-Milli-Q,
EVT	00/07/25	03:14:11	DLG 492641.5	5310426.99	Unknown	2183.246	19.8	18.676°	Site-Milli-Q,
EVT	00/07/25	03:18:12	DLG 492640.9	5310426.91	Unknown	2183.112	20.2	19.242°	Site-Milli-Q,There are some green lines on the computer display over there
EVT	00/07/25	03:18:26	DLG 492640.8	5310427.41	Unknown	2183.185	19.8	18.541°	Site-Milli-Q,they are planning on going along those lines
EVT	00/07/25	03:19:00	DLG 492641.6	5310426.46	Unknown	2183.265	20.4	18.481°	Site-Milli-Q,we are looking at a zigzag path we want to go along
EVT	00/07/25	03:20:39	DLG 492650.3	5310422.01	Unknown	2183.331	20.8	19.522°	Site-Milli-Q,"Mr. Mitsu ""Japan"" zawa is explaining something to Karen"
EVT	00/07/25	03:21:09	DLG 492651.8	5310420.51	Unknown	2183.205	19.3	18.618°	Site-Milli-Q,;-P
EVT	00/07/25	03:21:25	DLG 492655.1	5310418.89	Unknown	2183.265	18.1	18.043°	Site-Milli-Q,
EVT	00/07/25	03:21:25	DLG 492655.1	5310418.89	Unknown	2183.265	18.1	18.042°	Site-Milli-Q,
EVT	00/07/25	03:21:25	DLG 492655.1	5310418.89	Unknown	2183.265	18.1	18.129°	Site-Milli-Q,
EVT	00/07/25	03:23:05	DLG 492661.1	5310416.99	Unknown	2183.252	22.4	18.596°	Site-Milli-Q,
EVT	00/07/25	03:23:06	DLG 492661.1	5310416.99	Unknown	2183.231	22.4	18.418°	Site-Milli-Q,
EVT	00/07/25	03:25:48	DLG 492659.7	5310415.64	Unknown	2183.259	22.4	19.401°	Site-Milli-Q,people are writing notes....dont have a clue what it is

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	03:27:35	DLG	492659.1	5310416.04	Unknown	2183.306	22.6	19.383°	Site-Milli-Q,ready to start
EVT	00/07/25	03:27:44	DLG	492660.6	5310415.78	Unknown	2183.306	21.9	17.468°	Site-Milli-Q,heading 20
EVT	00/07/25	03:28:25	DLG	492659.6	5310415.83	Unknown	2186.401	18.9	17.475°	Site-Milli-Q,going down to 15m alt....
EVT	00/07/25	03:28:36	DLG	492659.6	5310415.83	Unknown	2187.512	18.2	17.705°	Site-Milli-Q,getting ready to record
EVT	00/07/25	03:30:05	DLG	492661.4	5310416.76	Unknown	2191.247	14.7	19.031°	Site-Milli-Q,gyro reset
EVT	00/07/25	03:30:10	DLG	492661.4	5310416.76	Unknown	2191.326	15.1	19.675°	Site-Milli-Q,ready to go
EVT	00/07/25	03:30:15	DLG	492661.4	5310416.76	Unknown	2191.220	15.1	18.320°	Site-Milli-Q,or stay...:-)
EVT	00/07/25	03:31:59	DLG	492658.8	5310415.4	Unknown	2191.274	14.8	17.610°	Site-Milli-Q,Jason is hovering
EVT	00/07/25	03:32:49	DLG	492658.8	5310415.42	Unknown	2191.213	15.1	19.437°	Site-Milli-Q,recording
EVT	00/07/25	03:32:56	DLG	492658.8	5310415.42	Unknown	2191.241	14.5	18.605°	Site-Milli-Q,not yet
EVT	00/07/25	03:33:19	DLG	492659.6	5310415.68	Unknown	2191.254	15.1	18.336°	Site-Milli-Q,aaah...now
EVT	00/07/25	03:36:27	DLG	492658.5	5310415.44	Unknown	2191.254	14.7	18.186°	Site-Milli-Q,Stopped recording...
EVT	00/07/25	03:37:01	DLG	492659.2	5310415.43	Unknown	2191.207	14.7	19.050°	Site-Milli-Q,we want to go up 20m
EVT	00/07/25	03:37:08	DLG	492659.2	5310415.43	Unknown	2191.241	14.8	18.764°	Site-Milli-Q,heading at half throttle
EVT	00/07/25	03:37:37	DLG	492658.8	5310415.1	Unknown	2191.260	15.2	17.383°	Site-Milli-Q,gyro reset
EVT	00/07/25	03:37:51	DLG	492657.8	5310415.72	Unknown	2191.267	14.3	18.109°	Site-Milli-Q,forward 20m
EVT	00/07/25	03:42:06	DLG	492670.5	5310431.35	Unknown	2191.307	16.6	18.744°	Site-Milli-Q,reached there
EVT	00/07/25	03:42:29	DLG	492670.6	5310431.51	Unknown	2191.726	16.1	16.037°	Site-Milli-Q,lets stay here and do some recording
EVT	00/07/25	03:42:32	DLG	492670.6	5310431.51	Unknown	2192.165	15.8	17.391°	Site-Milli-Q,yep
EVT	00/07/25	03:43:01	DLG	492671.0	5310431.86	Unknown	2193.338	14.9	18.869°	Site-Milli-Q,gyro reset
EVT	00/07/25	03:43:06	DLG	492671.0	5310431.86	Unknown	2193.331	14.7	18.107°	Site-Milli-Q,hovering
EVT	00/07/25	03:43:16	DLG	492671.0	5310431.86	Unknown	2193.265	14.8	17.484°	Site-Milli-Q,starting to record.....
EVT	00/07/25	03:43:25	DLG	492670.2	5310431.51	Unknown	2193.197	14.9	19.588°	Site-Milli-Q,recording.....
EVT	00/07/25	03:43:55	DLG	492671.6	5310431.41	Unknown	2193.258	14.9	19.013°	Site-Milli-Q,filename####77
EVT	00/07/25	03:46:01	DLG	492671.0	5310431.73	Unknown	2193.118	15.0	19.467°	Site-Milli-Q,Stopped recording.....
EVT	00/07/25	03:46:32	DLG	492670.0	5310431.91	Unknown	2193.152	14.9	19.808°	Site-Milli-Q,gyro reset
EVT	00/07/25	03:46:40	DLG	492670.1	5310431.52	Unknown	2193.225	15.1	19.061°	Site-Milli-Q,lets go ahead 20m
EVT	00/07/25	03:47:41	DLG	492674.8	5310435.51	Unknown	2193.145	15.9	18.743°	Site-Milli-Q,going there
EVT	00/07/25	03:49:20	DLG	492680.1	5310443.96	Unknown	2193.253	14.7	18.904°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	03:49:25	DLG	492680.1	5310443.96	Unknown	2193.197	14.3	18.626°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	03:50:34	DLG	492682.8	5310447.63	Unknown	2193.280	10.6	20.087°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	03:51:13	DLG	492682.6	5310448.15	Unknown	2193.227	10.6	20.366°	Site-Milli-Q,going to 15m alt
EVT	00/07/25	03:51:35	DLG	492683.1	5310447.51	Unknown	2191.320	12.5	20.429°	Site-Milli-Q,
EVT	00/07/25	03:53:16	DLG	492683.3	5310447.27	Unknown	2188.261	19.0	19.794°	Site-Milli-Q,starting to record.....again.
EVT	00/07/25	03:53:38	DLG	492684.6	5310448.1	Unknown	2188.280	15.5	22.806°	Site-Milli-Q,
EVT	00/07/25	03:53:45	DLG	492684.6	5310448.1	Unknown	2188.200	15.4	18.896°	Site-Milli-Q,recording
EVT	00/07/25	03:55:39	DLG	492682.6	5310447.91	Unknown	2188.160	16.4	19.297°	Site-Milli-Q,Stopped recording.....
EVT	00/07/25	04:00:18	DLG	492696.5	5310463.08	Unknown	2188.256	23.2	16.454°	Site-Milli-Q,just waiting to get there
EVT	00/07/25	04:00:37	DLG	492696.5	5310463.08	Unknown	2188.220	23.3	19.870°	Site-Milli-Q,got there
EVT	00/07/25	04:00:52	DLG	492695.1	5310464.32	Unknown	2188.254	23.7	18.177°	Site-Milli-Q,going down to 15m
EVT	00/07/25	04:03:00	DLG	492694.2	5310463.92	Unknown	2197.169	15.3	17.992°	Site-Milli-Q,gyro reset
EVT	00/07/25	04:03:16	DLG	492694.2	5310463.92	Unknown	2197.169	15.2	18.823°	Site-Milli-Q,
EVT	00/07/25	04:03:53	DLG	492696.1	5310463.72	Unknown	2197.249	15.3	19.678°	Site-Milli-Q,"Recording,,,,,,,,,"
EVT	00/07/25	04:06:09	DLG	492692.6	5310465.08	Unknown	2197.338	15.2	19.088°	Site-Milli-Q,Stopped recording

	date	time (GMT)	x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	04:07:02	DLG 492694.5	5310464.06	Unknown	2197.335	12.8	18.819°	Site-Milli-Q,going 20m forward
EVT	00/07/25	04:07:09	DLG 492694.5	5310464.06	Unknown	2197.295	15.7	18.555°	Site-Milli-Q,yup
EVT	00/07/25	04:11:06	DLG 492705.9	5310480.95	Unknown	2197.149	17.9	18.651°	Site-Milli-Q,got there...
EVT	00/07/25	04:12:21	DLG 492706.0	5310480.5	Unknown	2197.242	13.7	19.105°	Site-Milli-Q,getting ready to record....going down to 15m
EVT	00/07/25	04:12:23	DLG 492706.0	5310480.5	Unknown	2197.358	17.9	19.123°	Site-Milli-Q,alt
EVT	00/07/25	04:13:16	DLG 492705.8	5310481.34	Unknown	2200.208	15.1	19.880°	Site-Milli-Q,gyro reset
EVT	00/07/25	04:13:19	DLG 492706.0	5310481.32	Unknown	2200.235	15.0	18.509°	Site-Milli-Q,got there
EVT	00/07/25	04:13:24	DLG 492706.0	5310481.32	Unknown	2200.309	14.9	17.990°	Site-Milli-Q,lets go...buddy
EVT	00/07/25	04:14:07	DLG 492706.9	5310480.46	Unknown	2200.208	15.0	17.572°	Site-Milli-Q,Recording
EVT	00/07/25	04:16:36	DLG 492706.1	5310481	Unknown	2200.335	15.0	18.887°	Site-Milli-Q,"Stopped recording,,,,,,,,,,,,,"
EVT	00/07/25	04:16:52	DLG 492706.2	5310481.47	Unknown	2200.335	15.0	19.257°	Site-Milli-Q,Changing tapes
EVT	00/07/25	04:18:08	DLG 492706.4	5310481.54	Unknown	2200.268	15.0	14.801°	Site-Milli-Q,done
EVT	00/07/25	04:19:26	DLG 492706.1	5310481.33	Unknown	2200.281	15.0	13.643°	Site-Milli-Q,ready to go 20m ahead
EVT	00/07/25	04:21:37	DLG 492711.9	5310491.75	Unknown	2200.109	13.1	13.707°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	04:23:11	DLG 492715.7	5310499.11	Unknown	2200.183	7.9	12.874°	Site-Milli-Q,got there
EVT	00/07/25	04:23:16	DLG 492715.7	5310499.11	Unknown	2200.129	7.2	13.254°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	04:23:27	DLG 492717.5	5310499.23	Unknown	2200.183	7.9	14.035°	Site-Milli-Q,going to 15
EVT	00/07/25	04:23:31	DLG 492717.5	5310499.23	Unknown	2200.228	7.2	13.757°	Site-Milli-Q,and then record
EVT	00/07/25	04:24:13	DLG 492717.0	5310498.44	Unknown	2196.140	10.6	14.598°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	04:24:23	DLG 492718.0	5310498.17	Unknown	2195.134	11.4	14.941°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	04:27:09	DLG 492716.8	5310498.53	Unknown	2188.315	14.4	13.336°	Site-Milli-Q,got there...and hovering
EVT	00/07/25	04:27:35	DLG 492716.6	5310498.93	Unknown	2188.195	14.5	13.126°	Site-Milli-Q,Starting to record...filename 91
EVT	00/07/25	04:27:43	DLG 492715.9	5310498.09	Unknown	2188.295	14.5	13.518°	Site-Milli-Q,sorry 81
EVT	00/07/25	04:30:00	DLG 492716.9	5310498.83	Unknown	2188.178	14.6	14.227°	Site-Milli-Q,"Stopped recording,,/,/,/,/,/,/,/,/,/,/,"
EVT	00/07/25	04:30:55	DLG 492717.3	5310498.81	Unknown	2188.176	5.0	13.289°	Site-Milli-Q,turn around 180 degrees...
EVT	00/07/25	04:30:58	DLG 492716.0	5310499.39	Unknown	2188.282	14.4	6.293°	Site-Milli-Q,look back
EVT	00/07/25	04:31:59	DLG 492715.4	5310499.11	Unknown	2188.210	17.9	193.599°	Site-Milli-Q,done...turning
EVT	00/07/25	04:32:35	DLG 492715.9	5310498.74	Unknown	2188.329	17.7	191.908°	Site-Milli-Q,going down to 15m alt
EVT	00/07/25	04:33:11	DLG 492715.0	5310499.32	Unknown	2191.172	15.1	192.525°	Site-Milli-Q,got there
EVT	00/07/25	04:33:15	DLG 492715.0	5310499.32	Unknown	2191.112	15.6	192.294°	Site-Milli-Q,lets record
EVT	00/07/25	04:33:47	DLG 492715.1	5310498.77	Unknown	2191.212	15.2	193.558°	Site-Milli-Q,"Recording /,/,/,/,/,/,/,/,/,/, file name"
EVT	00/07/25	04:33:50	DLG 492715.1	5310498.77	Unknown	2191.205	15.1	192.715°	Site-Milli-Q,82
EVT	00/07/25	04:33:54	DLG 492715.1	5310498.77	Unknown	2191.312	15.2	192.813°	Site-Milli-Q,
EVT	00/07/25	04:35:59	DLG 492715.3	5310498.77	Unknown	2191.221	15.6	193.072°	Site-Milli-Q,Stopped recording .,/,/,/,/,/,/,/,/,/
EVT	00/07/25	04:36:06	DLG 492715.3	5310498.77	Unknown	2191.338	15.0	193.379°	Site-Milli-Q,0 0
EVT	00/07/25	04:36:11	DLG 492715.3	5310498.77	Unknown	2191.278	15.0	193.101°	Site-Milli-Q,
EVT	00/07/25	04:36:20	DLG 492715.5	5310499.08	Unknown	2191.214	15.1	193.272°	Site-Milli-Q,0
EVT	00/07/25	04:36:34	DLG 492715.5	5310499.08	Unknown	2191.258	15.6	193.845°	Site-Milli-Q,ignore the 0 s
EVT	00/07/25	04:36:56	DLG 492716.0	5310498.85	Unknown	2191.241	15.2	193.033°	Site-Milli-Q,"So, what do we do next?????????"

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	04:39:08	DLG	492715.6	5310498.71	Unknown	2191.305	15.7	192.896°	Site-Milli-Q,"So, whatsup"
EVT	00/07/25	04:47:05	DLG	492708.3	5310506.88	Unknown	2191.238	16.5	193.257°	Site-Milli-Q,sitting there doing nothing.....everyone of us...:-P
EVT	00/07/25	04:51:30	DLG	492714.4	5310499.24	Unknown	2191.218	16.5	192.367°	Site-Milli-Q,Rona and Jackson are figuring out a where we need to go next
EVT	00/07/25	04:51:44	DLG	492715.1	5310498.57	Unknown	2191.278	15.4	193.402°	Site-Milli-Q,discussions going on....and on...and on.....
EVT	00/07/25	04:57:12	DLG	492715.7	5310498.71	Unknown	2191.278	15.8	193.368°	Site-Milli-Q,still no conclusion
EVT	00/07/25	04:57:16	DLG	492715.7	5310498.71	Unknown	2191.312	15.6	193.158°	Site-Milli-Q,;-(-
EVT	00/07/25	05:01:39	DLG	492715.5	5310498.41	Unknown	2191.778	14.9	193.395°	Site-Milli-Q,looks like they reached one
EVT	00/07/25	05:01:42	DLG	492715.5	5310498.41	Unknown	2191.731	14.5	192.990°	Site-Milli-Q,;-(-
EVT	00/07/25	05:13:45	DLG	492716.7	5310498.92	Unknown	2197.831	5.5	191.726°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:14:01	DLG	492718.5	5310501.07	Unknown	2199.909	2.9	191.305°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:14:58	DLG	492708.2	5310501.4	Unknown	2202.353	8.2	190.561°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:16:40	DLG	492686.3	5310493.61	Unknown	2211.722	2.4	162.546°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:17:09	DLG	492693.7	5310479.44	Unknown	2210.329	3.4	177.379°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:18:25	DLG	492698.7	5310469.55	Unknown	2208.925	6.2	148.672°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:19:10	DLG	492702.0	5310473.54	Unknown	2212.368	2.6	148.996°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:19:30	DLG	492696.9	5310480.15	Unknown	2212.754	2.1	149.945°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:19:56	DLG	492700.9	5310474.47	Unknown	2212.887	2.4	167.732°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:20:07	DLG	492701.8	5310473.74	Unknown	2213.830	1.5	168.817°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:20:19	DLG	492701.8	5310472.78	Unknown	2213.714	1.8	189.548°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:20:30	DLG	492701.8	5310472.78	Unknown	2212.847	2.5	187.447°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:20:57	DLG	492697.7	5310473.65	Unknown	2211.708	3.6	188.246°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:21:54	DLG	492701.7	5310471.11	Unknown	2212.210	3.0	187.918°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:22:02	DLG	492699.4	5310470.58	Unknown	2211.317	3.9	187.082°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:22:10	DLG	492699.4	5310470.58	Unknown	2211.750	3.3	187.915°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:22:20	DLG	492699.3	5310469.36	Unknown	2212.524	2.4	187.685°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:22:32	DLG	492699.3	5310469.36	Unknown	2212.830	1.9	187.430°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:23:26	DLG	492697.5	5310468.02	Unknown	2212.583	2.0	187.466°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:23:42	DLG	492692.2	5310469.71	Unknown	2212.617	2.0	188.669°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:23:51	DLG	492692.2	5310469.71	Unknown	2211.817	2.6	187.783°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:24:11	DLG	492692.2	5310469.71	Unknown	2211.310	2.9	188.207°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:24:34	DLG	492692.2	5310469.71	Unknown	2211.477	2.2	188.840°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:24:50	DLG	492692.2	5310469.71	Unknown	2210.531	2.4	187.188°	Site-Milli-Q,grabbing frames continuously...from now
EVT	00/07/25	05:24:54	DLG	492692.2	5310469.71	Unknown	2210.637	1.9	187.330°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:25:07	DLG	492692.2	5310469.71	Unknown	2210.690	1.5	187.904°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:25:17	DLG	492692.2	5310469.71	Unknown	2210.004	1.9	188.423°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:25:34	DLG	492692.2	5310469.71	Unknown	2209.378	2.4	187.956°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:25:53	DLG	492692.2	5310469.71	Unknown	2209.269	1.2	188.206°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:26:09	DLG	492692.2	5310469.71	Unknown	2208.332	1.8	187.695°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:26:19	DLG	492692.2	5310469.71	Unknown	2208.456	1.6	186.458°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:26:27	DLG	492692.2	5310469.71	Unknown	2208.046	1.6	188.277°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:26:55	DLG	492692.2	5310469.71	Unknown	2207.046	1.8	187.599°	Site-Milli-Q,Looking for diffuse flow
EVT	00/07/25	05:27:26	DLG	492692.2	5310469.71	Unknown	2206.700	2.0	188.584°	Site-Milli-Q,VID_GRAB

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	05:28:01	DLG	492683.6	5310454.91	Unknown	2205.913	2.9	188.675°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:28:07	DLG	492683.6	5310454.91	Unknown	2205.374	3.7	173.783°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:28:30	DLG	492682.0	5310451.09	Unknown	2205.001	3.7	170.373°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:28:50	DLG	492679.3	5310450.48	Unknown	2207.519	2.1	173.366°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:29:00	DLG	492679.3	5310450.48	Unknown	2207.959	2.4	174.587°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:29:35	DLG	492674.2	5310444.52	Unknown	2208.243	2.1	172.218°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:30:23	DLG	492670.5	5310442.79	Unknown	2206.026	3.1	169.613°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:30:46	DLG	492670.5	5310442.79	Unknown	2204.361	2.9	172.443°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:30:57	DLG	492670.5	5310442.79	Unknown	2203.175	4.0	170.785°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:30:57	DLG	492659.8	5310438.12	Unknown	2203.175	4.0	171.135°	Site-Milli-Q,
EVT	00/07/25	05:31:01	DLG	492659.8	5310438.12	Unknown	2202.855	4.2	171.189°	Site-Milli-Q,
EVT	00/07/25	05:31:15	DLG	492659.8	5310438.12	Unknown	2202.196	3.9	170.335°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:31:28	DLG	492663.0	5310432.33	Unknown	2201.856	3.1	172.141°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:31:36	DLG	492663.0	5310432.33	Unknown	2201.982	1.8	171.612°	Site-Milli-Q,changed the angle of the rotator
EVT	00/07/25	05:31:41	DLG	492660.0	5310430.71	Unknown	2202.116	1.6	171.948°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:32:06	DLG	492657.3	5310432.78	Unknown	2200.617	3.3	222.497°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:32:33	DLG	492660.8	5310431.21	Unknown	2201.197	2.7	298.681°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:32:49	DLG	492663.0	5310431.97	Unknown	2202.842	4.2	315.465°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:33:01	DLG	492663.0	5310431.97	Unknown	2202.329	4.5	331.644°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:33:12	DLG	492663.0	5310431.97	Unknown	2200.997	4.7	350.155°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:33:16	DLG	492663.0	5310431.97	Unknown	2200.644	4.8	358.493°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:33:21	DLG	492663.0	5310431.97	Unknown	2200.038	5.2	7.992°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:33:52	DLG	492663.0	5310431.97	Unknown	2199.266	6.9	16.050°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:34:36	DLG	492665.2	5310439.2	Unknown	2203.231	4.7	41.187°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:34:46	DLG	492666.5	5310440.55	Unknown	2205.140	4.9	41.242°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:34:57	DLG	492666.5	5310440.55	Unknown	2205.580	4.9	44.903°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:35:22	DLG	492674.1	5310439.98	Unknown	2203.635	6.7	43.883°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:35:46	DLG	492674.1	5310439.98	Unknown	2202.917	6.0	43.148°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:35:58	DLG	492683.7	5310438.01	Unknown	2203.224	3.7	42.345°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:36:02	DLG	492683.7	5310438.01	Unknown	2202.989	3.9	44.133°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:36:08	DLG	492683.7	5310438.01	Unknown	2202.622	4.3	43.721°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:36:11	DLG	492683.7	5310438.01	Unknown	2202.149	4.7	42.985°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:36:14	DLG	492683.7	5310438.01	Unknown	2201.871	3.3	42.690°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:36:17	DLG	492682.3	5310443.76	Unknown	2201.457	3.6	43.538°	Site-Milli-Q,
EVT	00/07/25	05:36:21	DLG	492682.3	5310443.76	Unknown	2200.984	4.0	43.218°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:36:23	DLG	492682.3	5310443.76	Unknown	2200.659	4.1	42.861°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:36:27	DLG	492682.3	5310443.76	Unknown	2200.366	5.6	42.873°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:36:35	DLG	492682.3	5310443.76	Unknown	2199.394	4.9	42.605°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:37:49	DLG	492682.9	5310455.65	Unknown	2198.259	11.4	216.447°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:38:15	DLG	492677.9	5310456.21	Unknown	2202.183	5.7	220.192°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:38:42	DLG	492662.2	5310454.42	Unknown	2202.112	2.9	184.139°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:39:19	DLG	492661.9	5310448.04	Unknown	2201.758	3.2	189.941°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:39:46	DLG	492659.4	5310443.88	Unknown	2203.049	2.6	233.627°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:40:03	DLG	492658.5	5310445.75	Unknown	2201.612	4.1	278.225°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:40:22	DLG	492659.0	5310447.35	Unknown	2202.391	2.6	324.683°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:40:36	DLG	492659.0	5310447.35	Unknown	2202.458	1.3	343.999°	Site-Milli-Q,VID_GRAB

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	05:40:55	DLG	492659.4	5310448.43	Unknown	2202.688	1.8	9.233°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:41:28	DLG	492663.0	5310451.38	Unknown	2202.970	2.8	15.635°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:41:52	DLG	492664.8	5310451.18	Unknown	2205.613	1.3	17.497°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:42:03	DLG	492664.9	5310451.43	Unknown	2205.593	1.7	15.420°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:42:17	DLG	492664.9	5310451.43	Unknown	2206.222	1.8	35.571°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:42:37	DLG	492669.1	5310451.77	Unknown	2206.393	2.7	358.246°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:43:15	DLG	492674.5	5310452.25	Unknown	2206.009	3.3	357.559°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:43:50	DLG	492679.3	5310455.35	Unknown	2208.379	3.0	266.772°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:43:58	DLG	492679.3	5310455.35	Unknown	2208.165	2.2	267.209°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:44:04	DLG	492679.3	5310455.35	Unknown	2208.094	1.5	266.465°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:44:19	DLG	492678.5	5310467.34	Unknown	2208.418	1.1	278.636°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:44:34	DLG	492678.5	5310467.34	Unknown	2208.607	1.9	271.406°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:44:37	DLG	492678.6	5310466.61	Unknown	2207.912	2.2	271.089°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:44:43	DLG	492678.6	5310466.61	Unknown	2207.102	2.8	271.292°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:44:51	DLG	492678.6	5310466.61	Unknown	2206.342	3.3	270.057°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:45:07	DLG	492675.8	5310467.17	Unknown	2206.142	2.0	270.823°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:45:46	DLG	492671.8	5310472.31	Unknown	2207.967	1.3	4.792°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:45:54	DLG	492671.8	5310472.31	Unknown	2208.374	1.3	23.533°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:46:04	DLG	492673.8	5310474.57	Unknown	2208.418	1.1	58.065°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:46:14	DLG	492673.8	5310474.57	Unknown	2208.027	2.3	61.286°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:46:53	DLG	492679.9	5310473.87	Unknown	2209.298	2.6	358.680°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:47:04	DLG	492679.9	5310473.87	Unknown	2210.891	1.5	330.916°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:47:12	DLG	492679.9	5310473.87	Unknown	2210.673	2.0	330.541°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:47:17	DLG	492679.9	5310473.87	Unknown	2209.840	3.0	329.251°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:47:27	DLG	492679.9	5310473.87	Unknown	2209.154	3.8	329.747°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:47:35	DLG	492679.9	5310473.87	Unknown	2209.840	2.6	329.153°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:47:44	DLG	492690.1	5310482.3	Unknown	2210.946	1.7	310.998°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:47:53	DLG	492690.1	5310482.3	Unknown	2210.826	2.4	293.326°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:48:07	DLG	492691.0	5310487.34	Unknown	2209.893	3.0	257.008°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:48:38	DLG	492691.0	5310487.34	Unknown	2209.107	3.3	259.698°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:48:55	DLG	492691.0	5310487.34	Unknown	2209.934	2.7	259.778°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:49:01	DLG	492677.7	5310501.98	Unknown	2209.934	2.9	229.018°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:49:16	DLG	492677.7	5310501.98	Unknown	2209.147	3.5	192.103°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:49:36	DLG	492673.8	5310504.17	Unknown	2210.034	1.4	184.069°	Site-Milli-Q,
EVT	00/07/25	05:49:42	DLG	492670.7	5310501.52	Unknown	2210.106	1.6	187.915°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:49:51	DLG	492670.7	5310501.52	Unknown	2209.446	2.0	193.667°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:50:01	DLG	492668.3	5310499.93	Unknown	2208.687	2.8	192.890°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:50:16	DLG	492668.3	5310499.93	Unknown	2207.702	3.6	195.306°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:50:22	DLG	492664.8	5310497.81	Unknown	2207.022	3.9	169.052°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:50:45	DLG	492664.8	5310497.81	Unknown	2207.048	3.8	148.990°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:50:48	DLG	492664.8	5310497.81	Unknown	2206.962	3.5	158.892°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:51:00	DLG	492664.8	5310497.81	Unknown	2205.922	5.5	242.660°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:51:29	DLG	492662.9	5310495.93	Unknown	2206.329	4.2	121.171°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:52:15	DLG	492668.9	5310498.73	Unknown	2209.987	2.6	51.072°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:52:21	DLG	492675.9	5310501.65	Unknown	2210.700	1.9	49.558°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:52:54	DLG	492675.9	5310501.65	Unknown	2211.146	1.4	61.546°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:53:20	DLG	492674.6	5310507.13	Unknown	2211.793	1.4	62.541°	Site-Milli-Q,VID_GRAB

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	05:53:26	DLG	492674.6	5310507.13	Unknown	2211.906	1.1	55.472°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:54:17	DLG	492687.5	5310501.17	Unknown	2212.045	1.0	59.185°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:54:39	DLG	492693.1	5310502.93	Unknown	2211.286	1.9	61.447°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:55:06	DLG	492692.7	5310503.71	Unknown	2209.847	3.7	113.837°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:55:19	DLG	492690.0	5310505.73	Unknown	2211.007	2.4	169.870°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:55:29	DLG	492690.0	5310505.73	Unknown	2210.946	2.1	167.027°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:55:36	DLG	492690.0	5310505.73	Unknown	2210.593	2.2	161.976°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:55:43	DLG	492689.3	5310502	Unknown	2209.953	3.0	146.177°	Site-Milli-Q,I see smoke
EVT	00/07/25	05:55:46	DLG	492689.3	5310502	Unknown	2209.734	3.3	142.017°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:55:56	DLG	492689.3	5310502	Unknown	2210.126	2.7	136.910°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:56:02	DLG	492687.6	5310499.86	Unknown	2210.579	2.1	139.812°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:56:10	DLG	492687.6	5310499.86	Unknown	2210.453	2.4	142.449°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:56:40	DLG	492687.8	5310487.93	Unknown	2208.954	3.3	139.194°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:57:10	DLG	492687.8	5310487.93	Unknown	2207.152	5.2	142.661°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:57:48	DLG	492687.8	5310487.93	Unknown	2208.194	4.1	142.196°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:58:53	DLG	492687.8	5310487.93	Unknown	2209.593	3.0	156.082°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:59:02	DLG	492687.8	5310487.93	Unknown	2210.026	2.3	176.666°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:59:10	DLG	492687.8	5310487.93	Unknown	2209.107	3.5	173.765°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:59:20	DLG	492679.6	5310478.79	Unknown	2207.801	4.3	175.272°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	05:59:45	DLG	492684.6	5310468.66	Unknown	2206.868	2.5	175.021°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:00:16	DLG	492682.9	5310465.54	Unknown	2207.687	2.6	148.779°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:00:32	DLG	492677.3	5310463.81	Unknown	2207.575	3.0	134.733°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:00:44	DLG	492677.3	5310463.81	Unknown	2206.995	2.8	140.257°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:00:49	DLG	492677.3	5310463.81	Unknown	2206.622	3.6	139.999°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:01:15	DLG	492677.3	5310463.81	Unknown	2205.022	4.0	171.428°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:02:46	DLG	492677.7	5310450.2	Unknown	2205.323	3.1	166.341°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:02:59	DLG	492668.7	5310453.18	Unknown	2205.409	3.4	172.149°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:03:01	DLG	492668.7	5310453.18	Unknown	2205.029	3.4	173.107°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:03:13	DLG	492668.7	5310453.18	Unknown	2203.338	3.3	170.545°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:03:33	DLG	492668.7	5310453.18	Unknown	2203.044	1.9	172.683°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:03:41	DLG	492667.5	5310445.59	Unknown	2201.625	4.2	170.791°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:04:15	DLG	492661.0	5310442.04	Unknown	2201.159	4.2	145.506°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:04:39	DLG	492662.3	5310432.39	Unknown	2199.180	3.3	150.334°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:04:56	DLG	492662.3	5310432.39	Unknown	2196.157	6.2	158.148°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:05:09	DLG	492662.3	5310432.39	Unknown	2194.805	6.8	174.018°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:05:46	DLG	492662.3	5310432.39	Unknown	2192.595	9.1	230.837°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:06:19	DLG	492662.3	5310432.39	Unknown	2194.812	6.7	226.364°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:06:31	DLG	492662.3	5310432.39	Unknown	2196.830	3.0	177.264°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:07:02	DLG	492662.3	5310432.39	Unknown	2199.195	3.8	36.370°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:07:08	DLG	492662.3	5310432.39	Unknown	2199.820	3.1	348.450°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:07:23	DLG	492638.1	5310428.35	Unknown	2198.981	4.4	336.188°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:07:33	DLG	492638.1	5310428.35	Unknown	2197.842	4.9	342.771°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:08:17	DLG	492640.4	5310431.86	Unknown	2198.868	2.1	55.916°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:09:02	DLG	492637.6	5310432.07	Unknown	2198.282	1.3	148.769°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:09:50	DLG	492636.5	5310423.56	Unknown	2199.747	4.1	183.890°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:09:56	DLG	492636.5	5310423.56	Unknown	2198.827	4.5	181.476°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:10:03	DLG	492633.7	5310422.07	Unknown	2198.155	4.7	213.842°	Site-Milli-Q,VID_GRAB

	date	time (GMT)	x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	06:10:09	DLG 492633.7	5310422.07	Unknown	2197.782	4.6	229.711°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:10:23	DLG 492629.8	5310421.89	Unknown	2197.434	5.0	226.791°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:10:32	DLG 492629.8	5310421.89	Unknown	2195.238	6.2	224.236°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:10:36	DLG 492629.8	5310421.89	Unknown	2194.879	5.6	234.859°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:11:03	DLG 492628.6	5310424.66	Unknown	2195.544	4.4	142.690°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:11:27	DLG 492631.9	5310424.71	Unknown	2199.127	1.8	63.032°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:11:48	DLG 492634.8	5310425.49	Unknown	2201.910	1.2	52.774°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:12:05	DLG 492639.7	5310426.09	Unknown	2201.266	3.0	32.463°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:12:13	DLG 492639.7	5310426.09	Unknown	2200.380	3.7	355.722°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:12:32	DLG 492642.4	5310426.27	Unknown	2199.664	4.5	40.115°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:13:00	DLG 492638.7	5310431.5	Unknown	2200.480	2.4	222.492°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:13:04	DLG 492638.7	5310431.5	Unknown	2200.706	2.3	242.980°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:13:10	DLG 492638.7	5310431.5	Unknown	2199.965	2.6	254.300°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:13:16	DLG 492638.7	5310431.5	Unknown	2198.781	3.7	250.592°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:13:21	DLG 492643.2	5310430.18	Unknown	2198.002	3.7	251.808°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:13:30	DLG 492643.2	5310430.18	Unknown	2196.470	3.6	253.425°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:13:46	DLG 492639.5	5310433.55	Unknown	2194.200	4.0	247.643°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:13:57	DLG 492639.5	5310433.55	Unknown	2194.892	2.9	248.270°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:14:08	DLG 492637.2	5310436.46	Unknown	2194.576	4.1	273.262°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:14:13	DLG 492637.2	5310436.46	Unknown	2194.819	3.9	279.684°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:14:18	DLG 492632.6	5310440.38	Unknown	2194.743	3.7	282.855°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:14:26	DLG 492632.6	5310440.38	Unknown	2194.706	3.9	281.603°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:14:32	DLG 492632.6	5310440.38	Unknown	2194.240	4.0	281.406°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:14:43	DLG 492634.1	5310441.07	Unknown	2193.573	4.6	280.958°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:15:15	DLG 492632.0	5310441.88	Unknown	2192.022	6.6	302.326°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:15:24	DLG 492635.0	5310441.17	Unknown	2191.713	6.5	278.635°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:15:48	DLG 492633.7	5310441.37	Unknown	2191.014	7.3	279.067°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:16:02	DLG 492634.5	5310442.24	Unknown	2190.542	7.7	278.081°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:16:17	DLG 492634.5	5310442.24	Unknown	2190.315	7.4	278.037°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:16:27	DLG 492635.5	5310443.1	Unknown	2190.369	6.8	252.626°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:16:33	DLG 492635.5	5310443.1	Unknown	2190.161	6.8	229.625°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:16:37	DLG 492636.5	5310444.87	Unknown	2189.929	7.0	213.660°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:17:51	DLG 492627.1	5310452.88	Unknown	2187.100	6.3	270.546°	Site-Milli-Q,Change of tapes
EVT	00/07/25	06:17:52	DLG 492627.1	5310452.88	Unknown	2187.053	6.5	262.630°	Site-Milli-Q,done
EVT	00/07/25	06:17:58	DLG 492626.4	5310446.44	Unknown	2186.933	6.3	263.009°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:18:04	DLG 492626.4	5310446.44	Unknown	2187.363	5.2	262.023°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:18:44	DLG 492626.5	5310448.64	Unknown	2186.494	3.8	218.066°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:18:52	DLG 492626.5	5310448.64	Unknown	2186.048	7.3	213.385°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:18:55	DLG 492626.5	5310448.64	Unknown	2185.859	7.1	215.926°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:18:58	DLG 492626.7	5310448.91	Unknown	2185.214	6.0	219.496°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:19:03	DLG 492626.7	5310448.91	Unknown	2184.355	6.9	219.283°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:19:16	DLG 492626.7	5310448.91	Unknown	2183.079	10.5	229.395°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:19:38	DLG 492626.6	5310446.8	Unknown	2182.119	8.1	239.328°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:20:18	DLG 492630.1	5310448	Unknown	2181.932	11.1	60.635°	Site-Milli-Q,nice plume
EVT	00/07/25	06:20:22	DLG 492630.1	5310448	Unknown	2182.731	10.8	65.391°	Site-Milli-Q,good for study
EVT	00/07/25	06:20:28	DLG 492630.1	5310448	Unknown	2183.669	11.4	66.061°	Site-Milli-Q,note the coords of that one
EVT	00/07/25	06:20:59	DLG 492630.1	5310448	Unknown	2190.087	8.7	75.569°	Site-Milli-Q,NE corner of Milli -Q..

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	06:21:06	DLG	492630.1	5310448	Unknown	2191.085	9.1	89.436°	Site-Milli-Q,huge black smoker
EVT	00/07/25	06:23:05	DLG	492658.7	5310463.45	Unknown	2199.161	3.3	313.022°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:23:11	DLG	492658.7	5310463.45	Unknown	2198.428	4.0	313.179°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:23:15	DLG	492658.7	5310463.45	Unknown	2197.575	4.9	313.188°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:23:23	DLG	492657.1	5310466.58	Unknown	2196.028	5.8	313.296°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:23:24	DLG	492657.1	5310466.58	Unknown	2195.914	5.8	301.932°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:23:27	DLG	492657.1	5310466.58	Unknown	2195.538	6.2	295.069°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:24:03	DLG	492657.0	5310475.44	Unknown	2201.323	2.6	306.101°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:24:13	DLG	492657.0	5310475.44	Unknown	2203.361	2.0	354.980°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:24:28	DLG	492657.3	5310479.06	Unknown	2206.546	1.3	4.493°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:24:34	DLG	492657.3	5310479.06	Unknown	2206.392	2.2	7.990°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:24:40	DLG	492657.3	5310479.06	Unknown	2205.407	3.6	7.027°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:24:47	DLG	492657.3	5310479.06	Unknown	2205.140	4.4	344.615°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:25:09	DLG	492657.3	5310479.06	Unknown	2206.313	1.5	47.082°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:25:15	DLG	492657.3	5310479.06	Unknown	2206.566	1.4	64.050°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:25:48	DLG	492667.4	5310484.97	Unknown	2207.605	2.7	128.286°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:26:09	DLG	492668.1	5310482.48	Unknown	2206.479	4.2	148.306°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:26:19	DLG	492666.9	5310481.71	Unknown	2204.627	6.0	163.018°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:26:30	DLG	492666.9	5310481.71	Unknown	2203.021	7.0	174.676°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:26:37	DLG	492665.5	5310482.53	Unknown	2202.156	8.0	162.964°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:26:44	DLG	492665.5	5310482.53	Unknown	2201.369	8.6	152.990°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:26:51	DLG	492665.5	5310482.53	Unknown	2200.683	8.8	146.179°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:26:57	DLG	492665.5	5310482.53	Unknown	2200.210	9.3	147.259°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:27:03	DLG	492664.2	5310482.38	Unknown	2199.485	9.1	146.670°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:27:09	DLG	492664.2	5310482.38	Unknown	2198.619	9.1	147.245°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:27:33	DLG	492662.8	5310482.14	Unknown	2196.568	8.1	150.929°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:27:44	DLG	492660.8	5310479.36	Unknown	2197.546	3.1	151.995°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:27:55	DLG	492660.8	5310479.36	Unknown	2197.840	5.8	198.281°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:28:08	DLG	492659.2	5310476.47	Unknown	2197.284	7.7	162.888°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:28:20	DLG	492655.7	5310475.69	Unknown	2195.899	7.4	155.050°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:28:28	DLG	492655.7	5310475.69	Unknown	2195.202	8.1	146.325°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:28:41	DLG	492653.6	5310475.93	Unknown	2194.933	8.5	131.981°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:28:45	DLG	492653.6	5310475.93	Unknown	2195.227	8.4	133.639°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:29:19	DLG	492654.4	5310471.98	Unknown	2196.134	3.9	59.138°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:29:45	DLG	492662.0	5310470.83	Unknown	2197.325	5.3	326.663°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:30:32	DLG	492658.1	5310482.82	Unknown	2201.536	6.7	194.220°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:30:47	DLG	492655.7	5310486.2	Unknown	2202.340	4.6	176.904°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:30:56	DLG	492655.7	5310486.2	Unknown	2201.556	5.3	176.834°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:31:32	DLG	492652.4	5310482.02	Unknown	2199.711	5.1	135.524°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:31:51	DLG	492652.1	5310478.22	Unknown	2197.999	5.8	139.315°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:32:07	DLG	492653.1	5310475.91	Unknown	2196.587	7.8	139.330°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:32:16	DLG	492653.1	5310475.91	Unknown	2196.664	8.2	139.261°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:33:03	DLG	492650.2	5310480.31	Unknown	2197.840	7.5	78.034°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:33:14	DLG	492650.2	5310480.31	Unknown	2198.036	9.3	138.600°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:33:38	DLG	492652.6	5310480.96	Unknown	2200.011	5.9	233.053°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:34:06	DLG	492651.8	5310482.42	Unknown	2198.596	5.9	182.255°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:34:20	DLG	492645.9	5310480.71	Unknown	2198.472	3.9	142.574°	Site-Milli-Q,VID_GRAB

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	06:34:27	DLG	492645.9	5310480.71	Unknown	2197.960	5.1	115.968°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:34:58	DLG	492646.9	5310475.67	Unknown	2197.844	1.6	110.819°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:35:23	DLG	492648.8	5310473.17	Unknown	2196.865	3.8	108.963°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:36:02	DLG	492650.2	5310470.09	Unknown	2193.098	7.8	220.664°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:36:57	DLG	492648.3	5310474.97	Unknown	2195.120	5.8	199.360°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:37:29	DLG	492646.9	5310474.53	Unknown	2193.888	5.9	186.234°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:38:00	DLG	492643.7	5310474.57	Unknown	2193.744	6.6	158.124°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:38:20	DLG	492642.8	5310469.95	Unknown	2196.301	2.6	158.286°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:38:27	DLG	492642.8	5310469.95	Unknown	2196.825	2.3	131.170°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:38:39	DLG	492641.2	5310466.4	Unknown	2196.459	2.4	122.676°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:38:58	DLG	492642.2	5310463.29	Unknown	2194.856	3.6	107.172°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:39:13	DLG	492642.2	5310463.29	Unknown	2196.046	2.8	147.094°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:39:22	DLG	492642.8	5310460.13	Unknown	2196.346	2.1	149.419°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:39:59	DLG	492642.4	5310456.47	Unknown	2197.970	1.0	169.960°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:40:38	DLG	492640.2	5310455.68	Unknown	2195.373	2.6	170.876°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:40:43	DLG	492640.2	5310455.68	Unknown	2194.720	3.2	170.530°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:40:54	DLG	492640.2	5310455.68	Unknown	2192.908	4.7	168.761°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:40:57	DLG	492640.2	5310455.68	Unknown	2192.684	5.1	171.718°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:41:02	DLG	492639.6	5310456.48	Unknown	2191.997	5.8	171.111°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:41:20	DLG	492638.2	5310455.25	Unknown	2190.417	7.1	169.846°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:41:52	DLG	492638.3	5310455.92	Unknown	2186.423	10.7	162.653°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:42:58	DLG	492633.7	5310447.88	Unknown	2187.786	6.6	141.886°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:43:08	DLG	492633.7	5310447.88	Unknown	2189.385	5.1	144.888°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:44:04	DLG	492639.0	5310443.32	Unknown	2192.001	5.8	119.185°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:44:16	DLG	492639.0	5310443.32	Unknown	2193.419	5.7	177.861°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:44:54	DLG	492639.4	5310439.9	Unknown	2194.556	3.0	191.545°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:45:09	DLG	492634.7	5310437.52	Unknown	2193.519	4.7	189.634°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:45:43	DLG	492632.4	5310436.63	Unknown	2192.545	5.6	191.155°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:46:25	DLG	492630.8	5310438.6	Unknown	2188.937	7.9	191.205°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:46:57	DLG	492632.0	5310441.34	Unknown	2193.886	2.4	190.843°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:47:33	DLG	492632.8	5310442.62	Unknown	2191.526	5.4	187.198°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:47:44	DLG	492634.1	5310443.5	Unknown	2192.378	1.2	189.163°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:47:49	DLG	492634.1	5310443.5	Unknown	2191.848	1.5	206.090°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:47:52	DLG	492634.1	5310443.5	Unknown	2191.340	1.9	210.981°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:47:57	DLG	492634.1	5310443.5	Unknown	2190.035	3.5	208.636°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:48:02	DLG	492633.4	5310445.54	Unknown	2188.397	5.0	209.082°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:48:06	DLG	492633.4	5310445.54	Unknown	2186.553	6.3	208.893°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:48:42	DLG	492630.1	5310447.12	Unknown	2184.509	7.3	208.259°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:49:01	DLG	492628.7	5310446.95	Unknown	2184.463	7.4	208.267°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:49:34	DLG	492628.9	5310446.89	Unknown	2184.629	7.4	206.738°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:50:44	DLG	492620.3	5310446.74	Unknown	2184.163	4.1	208.020°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:51:18	DLG	492619.4	5310449.2	Unknown	2184.343	9.2	15.282°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:51:27	DLG	492619.4	5310449.2	Unknown	2185.434	9.1	47.862°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:51:35	DLG	492619.4	5310449.2	Unknown	2185.602	9.4	57.024°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:51:51	DLG	492618.3	5310449.66	Unknown	2185.103	10.0	57.745°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:52:16	DLG	492618.5	5310452.02	Unknown	2185.575	9.6	57.758°	Site-Milli-Q,I see a lot of smoke over here

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	06:52:32	DLG	492617.4	5310455.03	Unknown	2186.393	9.5	64.916°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:52:36	DLG	492617.4	5310455.03	Unknown	2186.181	9.4	100.036°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:52:42	DLG	492621.0	5310454.65	Unknown	2186.127	9.6	114.763°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:52:54	DLG	492621.0	5310454.65	Unknown	2185.375	10.4	133.052°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:53:06	DLG	492620.9	5310454.52	Unknown	2183.884	11.2	139.235°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:53:21	DLG	492620.2	5310453.5	Unknown	2184.430	10.5	128.201°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	06:54:15	DLG	492622.9	5310456.94	Unknown	2189.915	5.7	27.716°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:54:18	DLG	492626.1	5310462.26	Unknown	2190.394	5.3	25.930°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:54:22	DLG	492626.1	5310462.26	Unknown	2190.454	5.5	30.002°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:54:27	DLG	492626.1	5310462.26	Unknown	2190.135	5.5	29.021°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:54:38	DLG	492628.3	5310463.88	Unknown	2190.148	5.9	29.539°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:55:06	DLG	492626.5	5310465.4	Unknown	2190.108	6.1	28.507°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:55:39	DLG	492627.7	5310466.2	Unknown	2189.986	6.4	31.264°	Site-Milli-Q,a lot of particulate matter around here,
EVT	00/07/25	06:56:42	DLG	492623.6	5310468.3	Unknown	2192.979	3.4	29.360°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:57:01	DLG	492625.9	5310469.08	Unknown	2193.453	3.0	26.952°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:57:15	DLG	492625.9	5310469.08	Unknown	2193.091	3.2	28.140°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:58:06	DLG	492627.5	5310472.01	Unknown	2193.896	2.5	30.313°	Site-Milli-Q,VID_GRAB,"visibility poor, lots of particulate"
EVT	00/07/25	06:58:24	DLG	492627.8	5310472.9	Unknown	2193.017	3.4	29.668°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:59:01	DLG	492626.1	5310473.54	Unknown	2192.562	3.9	29.401°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	06:59:31	DLG	492624.7	5310472.93	Unknown	2193.053	3.4	28.806°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:00:18	DLG	492625.8	5310473.34	Unknown	2192.141	4.3	30.069°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:01:10	DLG	492629.6	5310474.73	Unknown	2193.867	2.7	27.670°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:01:45	DLG	492630.2	5310477.87	Unknown	2193.514	3.4	29.147°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:02:28	DLG	492635.3	5310482.52	Unknown	2192.948	4.3	328.986°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:02:41	DLG	492633.0	5310483.39	Unknown	2192.853	4.4	224.248°	Site-Milli-Q,
EVT	00/07/25	07:02:51	DLG	492633.0	5310483.39	Unknown	2192.840	4.1	147.863°	Site-Milli-Q,gyro reset
EVT	00/07/25	07:03:50	DLG	492634.6	5310482.65	Unknown	2192.833	4.3	32.942°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:04:32	DLG	492633.8	5310482.79	Unknown	2192.879	4.2	32.706°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:07:23	DLG	492635.3	5310483.07	Unknown	2194.055	2.8	350.044°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:08:05	DLG	492636.9	5310490.26	Unknown	2194.866	2.5	352.774°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:08:34	DLG	492638.7	5310494.27	Unknown	2194.608	2.4	261.434°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:09:06	DLG	492633.3	5310500.2	Unknown	2194.069	3.2	261.270°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:09:45	DLG	492632.1	5310492.15	Unknown	2194.016	3.1	256.230°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:10:27	DLG	492628.4	5310491.52	Unknown	2194.617	2.1	261.707°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:11:16	DLG	492624.4	5310494.11	Unknown	2194.356	2.6	198.364°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:11:50	DLG	492620.4	5310492.13	Unknown	2194.231	2.8	197.867°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:12:55	DLG	492620.0	5310488.79	Unknown	2194.264	1.7	194.878°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:14:32	DLG	492612.9	5310480.05	Unknown	2194.257	1.6	185.708°	Site-Milli-Q,VID_GRAB
EVT	00/07/25	07:15:58	DLG	492606.6	5310461.78	Unknown	2195.316	1.9	187.999°	Site-Milli-Q,VID_GRAB,"dead worm remnants, possibly, with a crab in amongst"
EVT	00/07/25	07:16:33	DLG	492609.0	5310458.47	Unknown	2195.186	1.3	191.121°	Site-Milli-Q,VID_GRAB,sulphur staining
EVT	00/07/25	07:18:11	DLG	492596.8	5310446.72	Unknown	2195.476	2.1	190.956°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:19:34	DLG	492598.4	5310443.16	Unknown	2195.512	1.4	191.233°	Site-Milli-Q,VID_GRAB,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	07:20:04	DLG	492596.7	5310445.98	Unknown	2195.519	1.6	191.649°	Site-Milli-Q,VID_GRAB,Sea Cliff/TURTLE weight plate
EVT	00/07/25	07:21:05	DLG	492596.7	5310445.98	Unknown	2195.508	1.2	189.990°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:21:53	DLG	492588.5	5310424.68	Unknown	2195.446	1.7	189.934°	Site-Milli-Q,VID_GRAB,another weight plate
EVT	00/07/25	07:22:44	DLG	492597.0	5310425.95	Unknown	2195.488	1.7	191.340°	Site-Milli-Q,"paused, waiting for Medea to reposition",
EVT	00/07/25	07:24:30	DLG	492591.2	5310424.11	Unknown	2195.527	1.8	218.221°	Site-Milli-Q,VID_GRAB,marker? to left and below of a Sea Cliff/TURTLE weight plate
EVT	00/07/25	07:25:16	DLG	492591.2	5310424.11	Unknown	2193.443	3.3	352.577°	Site-Milli-Q,VID_GRAB,piece of line spotted
EVT	00/07/25	07:28:51	DLG	492604.9	5310446.78	Unknown	2195.548	1.5	29.587°	Site-Milli-Q,VID_GRAB,"Medusa, sitting in diffuse flow"
EVT	00/07/25	07:29:32	DLG	492606.5	5310449.77	Unknown	2195.407	1.9	47.786°	Site-Milli-Q,VID_GRAB,a Medusa sitting in diffuse flow
EVT	00/07/25	07:31:30	DLG	492603.9	5310465.07	Unknown	2195.437	2.6	19.459°	Site-Milli-Q,VID_GRAB,small structure
EVT	00/07/25	07:34:11	DLG	492606.8	5310472.42	Unknown	2195.301	1.4	16.906°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:34:40	DLG	492608.8	5310475.47	Unknown	2194.644	1.1	19.369°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:36:31	DLG	492608.6	5310481.7	Unknown	2192.731	3.5	18.637°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:37:47	DLG	492623.6	5310493.04	Unknown	2192.398	4.5	17.153°	Site-Milli-Q,"just finishing a line, hovering to wait for Medea to position",
EVT	00/07/25	07:42:52	DLG	492643.5	5310486.26	Unknown	2199.415	4.1	95.705°	Site-Milli-Q,VID_GRAB,resuming
EVT	00/07/25	07:45:15	DLG	492652.5	5310493.6	Unknown	2201.579	4.2	99.140°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:45:49	DLG	492647.6	5310487.33	Unknown	2201.320	4.9	98.730°	Site-Milli-Q,"paused, waiting for Medea to position",
EVT	00/07/25	07:47:31	DLG	492657.2	5310479.67	Unknown	2200.933	6.2	98.971°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:50:45	DLG	492663.6	5310473.46	Unknown	2198.509	5.9	95.264°	Site-Milli-Q,"when Medea repositions, it will drag us across several lines going South and ",
EVT	00/07/25	07:58:59	DLG	492658.8	5310452.9	Unknown	2201.365	1.5	168.386°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:59:21	DLG	492654.0	5310447.12	Unknown	2201.204	0.9	175.506°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	07:59:28	DLG	492654.0	5310447.12	Unknown	2201.074	1.2	177.813°	Site-Milli-Q,VID_GRAB,staining
EVT	00/07/25	08:00:45	DLG	492652.0	5310446.33	Unknown	2200.234	1.8	175.428°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	08:03:55	DLG	492643.5	5310434.19	Unknown	2196.820	4.2	233.762°	Site-Milli-Q,VID_GRAB,
EVT	00/07/25	08:04:37	DLG	492636.5	5310435.75	Unknown	2193.677	4.7	248.114°	Site-Milli-Q,VID_GRAB,tube worms spotted
EVT	00/07/25	08:16:04	DLG	492630.4	5310440.65	Unknown	2192.006	4.2	325.821°	Site-Milli-Q,VID_GRAB,vent worms
EVT	00/07/25	08:29:02	DLG	492647.9	5310487.81	Unknown	2201.516	3.4	192.332°	Site-Milli-Q,positioning onto next video transect line,
EVT	00/07/25	08:30:41	DLG	492646.0	5310494.46	Unknown	2202.515	2.9	297.173°	Site-Milli-Q,VID_GRAB,diffuse flow
EVT	00/07/25	08:30:56	DLG	492646.0	5310494.46	Unknown	2201.803	3.6	294.182°	Site-Milli-Q,VID_GRAB,large patch of diffuse flow
EVT	00/07/25	08:33:02	DLG	492646.9	5310493.93	Unknown	2201.542	3.5	283.961°	Site-Milli-Q,rotating JASON to remove twist in tether,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	08:40:43	DLG	492630.8	5310488.23	Unknown	2194.476	2.0	200.702°	Site-Milli-Q,VID_GRAB,"crab a few metres above an area of diffuse flow (small), seen on deck 1 and 3 video feed (brow camera)"
EVT	00/07/25	08:46:22	DLG	492630.4	5310452.94	Unknown	2190.852	4.2	195.850°	Site-Milli-Q,VID_GRAB,possible diffuse flow
EVT	00/07/25	08:47:18	DLG	492634.8	5310449.66	Unknown	2191.057	4.5	197.286°	Site-Milli-Q,VID_GRAB,flow on the side of a large structure
EVT	00/07/25	08:49:00	DLG	492627.1	5310450.36	Unknown	2188.002	4.1	198.933°	Site-Milli-Q,VID_GRAB,flow on the side of a structure
EVT	00/07/25	08:49:25	DLG	492625.3	5310449.29	Unknown	2187.774	2.7	195.143°	Site-Milli-Q,VID_GRAB,diffuse flow spotted
EVT	00/07/25	08:53:40	DLG	492617.9	5310438.01	Unknown	2193.272	1.8	196.790°	Site-Milli-Q,VID_GRAB,four Alvin weights spotted (site of an Alvin dive termination)
EVT	00/07/25	08:58:58	DLG	492616.3	5310422.24	Unknown	2193.132	4.4	155.769°	Site-Milli-Q,"finished line, hovering to reposition",
EVT	00/07/25	08:59:32	DLG	492616.6	5310417.76	Unknown	2193.092	3.9	172.630°	Site-Milli-Q,VID_GRAB,diffuse flow
EVT	00/07/25	08:59:47	DLG	492615.4	5310416.46	Unknown	2193.061	4.3	166.322°	Site-Milli-Q,VID_GRAB,large structure with lots of diffuse flow
EVT	00/07/25	09:00:59	DLG	492618.9	5310418.7	Unknown	2192.968	5.0	119.260°	Site-Milli-Q,VID_GRAB,structure weakly smoking at top and down side
EVT	00/07/25	09:04:11	DLG	492614.1	5310415.5	Unknown	2192.951	4.9	99.365°	Site-Milli-Q,VID_GRAB,top of diffuse flowing structure (a lot of diffuse flow emanating from top)
EVT	00/07/25	09:07:58	DLG	492606.4	5310445.31	Unknown	2192.445	3.6	349.999°	Site-Milli-Q,VID_GRAB,four Alvin weight plates (site of a dive termination)
EVT	00/07/25	09:10:16	DLG	492614.3	5310445.03	Unknown	2191.526	4.7	10.588°	Site-Milli-Q,VID_GRAB,"resistivity probe, gamma detector, and site marker sited on the Brow camera (decks 1 and 3)"
EVT	00/07/25	09:10:39	DLG	492614.5	5310445.66	Unknown	2191.440	4.9	9.375°	Site-Milli-Q,VID_GRAB,small smoker complex
EVT	00/07/25	09:11:27	DLG	492612.4	5310446.05	Unknown	2189.490	7.0	34.674°	Site-Milli-Q,lots of small smokers on large structure,
EVT	00/07/25	09:11:54	DLG	492614.4	5310446.46	Unknown	2186.354	9.4	65.511°	Site-Milli-Q,VID_GRAB,resistivity probe
EVT	00/07/25	09:12:40	DLG	492614.8	5310448.35	Unknown	2184.430	11.6	63.239°	Site-Milli-Q,VID_GRAB,Milli-Q black smoker bleeds
EVT	00/07/25	09:20:35	DLG	492611.8	5310441.16	Unknown	2185.688	10.1	16.802°	Site-Milli-Q,"start recording passive sonar imaging, hovering 00G25084",
EVT	00/07/25	09:22:26	DLG	492618.2	5310445.31	Unknown	2184.291	9.9	12.555°	Site-Milli-Q,VID_GRAB,strong smoking structure
EVT	00/07/25	09:23:37	DLG	492618.8	5310444.47	Unknown	2184.219	9.4	43.299°	Site-Milli-Q,stop recording,
EVT	00/07/25	09:25:42	DLG	492623.6	5310443.56	Unknown	2182.801	9.8	286.905°	Site-Milli-Q,start recording passive sonar imaging 00G25085,
EVT	00/07/25	09:26:28	DLG	492623.0	5310443.57	Unknown	2184.106	7.8	288.260°	Site-Milli-Q,VID_GRAB,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	09:28:31	DLG	492623.7	5310443.8	Unknown	2184.477	6.7	146.053°	Site-Milli-Q,stop recording,
EVT	00/07/25	09:29:40	DLG	492624.5	5310436.78	Unknown	2187.443	7.2	165.136°	Site-Milli-Q,looking for a perch to sit on and image the strong smoking structure,
EVT	00/07/25	09:31:39	DLG	492615.4	5310436.8	Unknown	2193.398	3.3	342.073°	Site-Milli-Q,identified landing point and moving into position to set down and perform plume sonar imagin,
EVT	00/07/25	09:37:19	DLG	492619.1	5310452.56	Unknown	2185.324	9.7	118.638°	Site-Milli-Q,still looking for landing spot,
EVT	00/07/25	09:46:43	DLG	492631.0	5310442.69	Unknown	2188.257	1.7	214.115°	Site-Milli-Q,trying to land on a structure about 8m away from target (very rough landing spot though),
EVT	00/07/25	09:49:09	DLG	492627.6	5310444.51	Unknown	2186.100	4.5	219.058°	Site-Milli-Q,"aborting landing site, looking for another",
EVT	00/07/25	09:56:28	DLG	492603.3	5310430.13	Unknown	2183.710	12.0	343.743°	Site-Milli-Q,determined height of Milli-Q as being approximately 13 metres,
EVT	00/07/25	10:24:44	DLG	492654.9	5310443.61	Unknown	2184.676	16.9	48.172°	Site-Milli-Q,no landing sites to East or West within reasonable range (about 20m) of Milli-Q,
EVT	00/07/25	10:25:43	DLG	492644.6	5310447.48	Unknown	2184.938	14.3	265.524°	Site-Milli-Q,exploring Northeast of Milli-Q for landing sites from which to perform sonar imaging series of the plume,
EVT	00/07/25	10:26:02	DLG	492644.6	5310447.48	Unknown	2184.799	13.8	192.406°	Site-Milli-Q,Milli-Q smoke drifting to the Northeast
EVT	00/07/25	10:27:21	DLG	492633.4	5310464.42	Unknown	2184.834	10.4	190.169°	Site-Milli-Q,abandoning search for landing site
EVT	00/07/25	10:28:08	DLG	492631.9	5310466.46	Unknown	2184.868	10.4	191.454°	Site-Milli-Q,"plan to do noise test (passive scan with and without JASON systems on, e.g. thrusters, sonar, etc.)"
EVT	00/07/25	10:28:54	DLG	492632.8	5310465.18	Unknown	2184.761	10.6	191.161°	Site-Milli-Q,Plume sonar imaging of Milli-Q will require performing series while hovering
EVT	00/07/25	10:33:52	DLG	492632.0	5310465.67	Unknown	2186.470	8.9	187.097°	Site-Milli-Q,start recording passive sonar imaging 00G25086
EVT	00/07/25	10:34:15	DLG	492632.5	5310465.72	Unknown	2189.792	5.6	187.246°	Site-Milli-Q,disregard last
EVT	00/07/25	10:34:30	DLG	492632.0	5310465.77	Unknown	2192.714	3.0	187.355°	Site-Milli-Q,start recording passive sonar imaging 00G25086
EVT	00/07/25	10:35:01	DLG	492632.2	5310465.79	Unknown	2191.363	4.2	184.448°	Site-Milli-Q,turn off JASON thrusters
EVT	00/07/25	10:35:18	DLG	492632.2	5310465.21	Unknown	2188.932	6.5	166.861°	Site-Milli-Q,turn off JASON altimeter
EVT	00/07/25	10:35:37	DLG	492633.6	5310465.67	Unknown	2184.985	6.5	161.091°	Site-Milli-Q,turn off JASON sonar
EVT	00/07/25	10:35:55	DLG	492633.6	5310465.67	Unknown	2180.951	6.5	167.496°	Site-Milli-Q,JASON systems back on
EVT	00/07/25	10:35:58	DLG	492633.3	5310468.17	Unknown	2180.679	6.5	168.893°	Site-Milli-Q,stop recording
EVT	00/07/25	10:37:26	DLG	492633.5	5310467.76	Unknown	2187.494	8.6	135.757°	Site-Milli-Q,taking a breather waiting for shift change
EVT	00/07/25	11:05:12	DLG	492633.0	5310469.25	Unknown	2180.909	14.7	316.471°	Site-Milli-Q,planing the next moves

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	11:30:16	DLG	492637.7	5310467.26	Unknown	2188.028	10.8	214.883°	Site-Milli-Q,pointing the sonar down
EVT	00/07/25	11:31:31	DLG	492638.1	5310467.46	Unknown	2185.625	13.2	214.546°	Site-Milli-Q,going up to 15 m altitude
EVT	00/07/25	11:32:02	DLG	492639.6	5310467.14	Unknown	2184.713	9.5	215.661°	Site-Milli-Q,holding position 15m altitude,,
EVT	00/07/25	11:43:10	DLG	492639.9	5310466.66	Unknown	2179.618	15.5	27.462°	Site-Milli-Q,going up 18 m altitude,,
EVT	00/07/25	11:46:36	DLG	492648.4	5310478.77	Unknown	2179.479	19.9	25.498°	Site-Milli-Q,SM 2000 crashed ,,
EVT	00/07/25	11:46:44	DLG	492648.6	5310478.86	Unknown	2179.592	22.3	25.451°	Site-Milli-Q,rebooting,,
EVT	00/07/25	11:48:31	DLG	492649.9	5310483.95	Unknown	2179.550	25.6	265.129°	Site-Milli-Q,recalibrate rotator,,
EVT	00/07/25	11:49:47	DLG	492651.4	5310484.13	Unknown	2179.525	25.7	266.585°	Site-Milli-Q,putting a new data tape in,,
EVT	00/07/25	11:52:50	DLG	492651.0	5310485.11	Unknown	2188.986	17.5	266.604°	Site-Milli-Q,going NE 10m,,
EVT	00/07/25	11:53:45	DLG	492651.3	5310484.79	Unknown	2189.031	17.6	266.810°	Site-Milli-Q,setting sonar,,
EVT	00/07/25	11:57:24	DLG	492651.4	5310484.45	Unknown	2189.033	17.3	266.234°	Site-Milli-Q,, DIFFUSE,start recording D2 00G25087 moving over diffuse flow field
EVT	00/07/25	11:57:52	DLG	492651.8	5310483.29	Unknown	2188.960	17.6	267.073°	Site-Milli-Q,sonar looking down for bathy,,
EVT	00/07/25	12:00:27	DLG	492650.4	5310479.71	Unknown	2188.817	15.1	267.327°	Site-Milli-Q,moving at a speed of 0.4 (joi gain),,
EVT	00/07/25	12:00:40	DLG	492650.4	5310479.17	Unknown	2188.849	14.7	266.211°	Site-Milli-Q,moving west,,
EVT	00/07/25	12:00:57	DLG	492650.4	5310479.17	Unknown	2188.904	14.0	266.602°	Site-Milli-Q,heading 269 degrees,,
EVT	00/07/25	12:11:45	DLG	492608.3	5310483.49	Unknown	2180.224	12.9	265.517°	Site-Milli-Q,the 00G25087 recording is named 00G25026 on the computer's file,,
EVT	00/07/25	12:12:56	DLG	492601.8	5310485.09	Unknown	2179.800	16.1	171.303°	Site-Milli-Q,VID_GRAB,smoker,
EVT	00/07/25	12:13:33	DLG	492594.2	5310487.09	Unknown	2179.978	15.7	200.613°	Site-Milli-Q,turning south (heading's now 207),,
EVT	00/07/25	12:14:58	DLG	492599.7	5310471.57	Unknown	2180.184	13.4	93.269°	Site-Milli-Q,moving south for 5 m,,
EVT	00/07/25	12:18:03	DLG	492604.0	5310474.57	Unknown	2179.848	13.9	90.407°	Site-Milli-Q,move's done,,
EVT	00/07/25	12:18:46	DLG	492603.3	5310473.4	Unknown	2180.067	14.0	90.655°	Site-Milli-Q,turning towards east (heading's now 090),,
EVT	00/07/25	12:18:53	DLG	492603.3	5310473.4	Unknown	2180.114	14.3	90.503°	Site-Milli-Q,waiting for medea,,
EVT	00/07/25	12:19:20	DLG	492600.5	5310465.17	Unknown	2179.947	17.7	92.136°	Site-Milli-Q,, DIFFUSE,start recording D2 00G25089
EVT	00/07/25	12:19:59	DLG	492601.7	5310464.53	Unknown	2179.794	17.9	92.017°	Site-Milli-Q,still waiting for medea,,
EVT	00/07/25	12:20:32	DLG	492601.3	5310464.27	Unknown	2179.794	17.9	91.083°	Site-Milli-Q,starting the 20m line going east,,
EVT	00/07/25	12:22:24	DLG	492609.3	5310462.45	Unknown	2179.608	17.1	91.094°	Site-Milli-Q,altitude of about 18m,,
EVT	00/07/25	12:24:52	DLG	492624.9	5310460.93	Unknown	2179.695	15.5	91.483°	Site-Milli-Q,VID_GRAB,smoke coming out of Milli-Q ,
EVT	00/07/25	12:29:34	DLG	492652.1	5310463.77	Unknown	2181.984	16.5	81.334°	Site-Milli-Q,busting interval changed to 5/s,,
EVT	00/07/25	12:32:00	DLG	492666.0	5310465.35	Unknown	2181.910	17.3	80.738°	Site-Milli-Q,going 20m more heading east,,
EVT	00/07/25	12:33:24	DLG	492674.4	5310466.16	Unknown	2186.896	20.8	79.605°	Site-Milli-Q,those 20m lines are 20 spaced lines but 50m long,,

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EVT	00/07/25	12:34:05	DLG	492682.0	5310466.69	Unknown	2191.929	19.3	81.172°	Site-Milli-Q,we're doing another 50m move heading east-not a 20m move,,
EVT	00/07/25	12:34:43	DLG	492690.6	5310467.04	Unknown	2191.909	20.1	79.960°	Site-Milli-Q,we're done,,
EVT	00/07/25	12:34:52	DLG	492690.6	5310467.04	Unknown	2191.889	20.8	81.537°	Site-Milli-Q,stop recording,,
EVT	00/07/25	12:35:10	DLG	492695.4	5310466.82	Unknown	2191.843	20.7	102.443°	Site-Milli-Q,turning around ,,
EVT	00/07/25	12:36:50	DLG	492695.1	5310468.07	Unknown	2191.963	22.1	180.172°	Site-Milli-Q,now heading south ,,
EVT	00/07/25	12:37:05	DLG	492695.1	5310468.07	Unknown	2192.190	21.4	178.323°	Site-Milli-Q,180 degrees,,
EVT	00/07/25	12:37:34	DLG	492693.4	5310463.8	Unknown	2192.251	19.4	178.259°	Site-Milli-Q,going 20m south,,
EVT	00/07/25	12:41:36	DLG	492689.0	5310453.99	Unknown	2191.847	13.2	224.593°	Site-Milli-Q,adjusting telemetry,,
EVT	00/07/25	12:42:28	DLG	492688.9	5310453.81	Unknown	2191.888	12.4	270.861°	Site-Milli-Q,move's done,,
EVT	00/07/25	12:42:46	DLG	492690.1	5310453.42	Unknown	2191.927	12.4	270.853°	Site-Milli-Q,waiting for medea to catch up,,
EVT	00/07/25	12:42:56	DLG	492690.1	5310453.42	Unknown	2191.940	12.4	270.732°	Site-Milli-Q,turning towards east,,
EVT	00/07/25	12:43:48	DLG	492690.0	5310454.22	Unknown	2191.847	12.3	271.345°	Site-Milli-Q,pointing to sonar up-looking sraight ahead,,
EVT	00/07/25	12:43:53	DLG	492690.0	5310454.22	Unknown	2192.002	12.3	271.307°	Site-Milli-Q,setting sonar,,
EVT	00/07/25	12:44:20	DLG	492690.7	5310453.89	Unknown	2191.940	12.9	255.977°	Site-Milli-Q,altitude about 12m,,
EVT	00/07/25	12:46:33	DLG	492689.7	5310454.97	Unknown	2192.006	12.4	266.054°	Site-Milli-Q,, DIFFUSE,start recording 00G25090 looking ahead of us
EVT	00/07/25	12:46:54	DLG	492689.7	5310454.97	Unknown	2191.945	12.4	265.927°	Site-Milli-Q,heading west (270),,,
EVT	00/07/25	12:48:02	DLG	492689.8	5310454.36	Unknown	2191.842	12.4	265.985°	Site-Milli-Q,stop recording,,
EVT	00/07/25	12:48:10	DLG	492689.8	5310454.36	Unknown	2191.845	12.5	265.896°	Site-Milli-Q,setting up the sonar,,
EVT	00/07/25	12:48:32	DLG	492690.1	5310454.65	Unknown	2191.878	13.2	265.015°	Site-Milli-Q,moving 50 m towards west,,
EVT	00/07/25	12:50:02	DLG	492685.3	5310451.2	Unknown	2191.768	13.4	265.182°	Site-Milli-Q,, DIFFUSE,start recording 00G25091
EVT	00/07/25	12:50:18	DLG	492683.8	5310451.99	Unknown	2189.430	15.7	265.725°	Site-Milli-Q,looking down with the sonar for bathy,,
EVT	00/07/25	12:51:34	DLG	492681.0	5310452.92	Unknown	2183.227	20.4	265.630°	Site-Milli-Q,altitude about 20m,,
EVT	00/07/25	12:52:51	DLG	492673.8	5310454.74	Unknown	2177.351	29.6	265.285°	Site-Milli-Q,altitude bouncing,,
EVT	00/07/25	12:53:29	DLG	492673.8	5310457	Unknown	2189.034	19.9	265.698°	Site-Milli-Q,stable at 25m alt-still moving,,
EVT	00/07/25	12:58:02	DLG	492661.9	5310452.59	Unknown	2188.417	17.7	257.130°	Site-Milli-Q,VID_GRAB,just missed a fish,
EVT	00/07/25	12:58:29	DLG	492660.6	5310452.64	Unknown	2188.270	16.8	256.721°	Site-Milli-Q,still moving towards west,,
EVT	00/07/25	13:01:12	DLG	492644.0	5310460	Unknown	2188.203	13.3	242.164°	Site-Milli-Q,drifting a bit toward north,,
EVT	00/07/25	13:02:53	DLG	492631.5	5310476.86	Unknown	2187.352	9.4	244.804°	Site-Milli-Q,having problems with the positioning,,
EVT	00/07/25	13:03:11	DLG	492631.5	5310476.86	Unknown	2187.352	9.6	252.220°	Site-Milli-Q,stopping the ship and Jason,,
EVT	00/07/25	13:04:03	DLG	492626.6	5310485.61	Unknown	2184.585	12.3	325.955°	Site-Milli-Q,nav's mixed up,,
EVT	00/07/25	13:05:01	DLG	492626.2	5310481.95	Unknown	2175.308	21.3	4.211°	Site-Milli-Q,stop recording,,
EVT	00/07/25	13:05:14	DLG	492626.2	5310481.95	Unknown	2175.166	21.4	2.610°	Site-Milli-Q,trying to go under medea,,
EVT	00/07/25	13:06:55	DLG	492605.4	5310464.66	Unknown	2175.109	22.8	3.382°	Site-Milli-Q,line's stopped ,,
EVT	00/07/25	13:09:21	DLG	492623.6	5310449.49	Unknown	2175.485	18.1	103.838°	Site-Milli-Q,nav's back,,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	13:09:47	DLG	492623.7	5310451.27	Unknown	2175.447	18.0	248.912°	Site-Milli-Q,we'll try to continue to line where we left,,
EVT	00/07/25	13:10:06	DLG	492626.3	5310453.72	Unknown	2175.387	19.1	225.057°	Site-Milli-Q,, DIFFUSE,start recording 00G25092
EVT	00/07/25	13:11:09	DLG	492610.4	5310449.84	Unknown	2175.434	17.7	116.189°	Site-Milli-Q,we're under medea,,
EVT	00/07/25	13:11:31	DLG	492615.0	5310444.65	Unknown	2175.361	19.4	298.034°	Site-Milli-Q,turning toward west,,
EVT	00/07/25	13:12:24	DLG	492616.1	5310447.81	Unknown	2175.632	16.3	270.882°	Site-Milli-Q,holding position,,
EVT	00/07/25	13:12:32	DLG	492616.1	5310447.81	Unknown	2175.654	16.2	270.156°	Site-Milli-Q,moving west,,
EVT	00/07/25	13:12:39	DLG	492616.4	5310447.52	Unknown	2175.721	16.1	269.781°	Site-Milli-Q,heading 274,,
EVT	00/07/25	13:13:11	DLG	492615.6	5310448.55	Unknown	2176.896	15.1	268.762°	Site-Milli-Q,we're over some kind of structure,,
EVT	00/07/25	13:16:28	DLG	492602.5	5310452.76	Unknown	2187.318	10.5	269.836°	Site-Milli-Q,heading up slope,,
EVT	00/07/25	13:16:39	DLG	492599.4	5310452.83	Unknown	2186.460	11.3	270.088°	Site-Milli-Q,altitude decreasing,,
EVT	00/07/25	13:16:53	DLG	492599.4	5310452.83	Unknown	2185.421	12.4	270.112°	Site-Milli-Q,going up to follow the slope,,
EVT	00/07/25	13:18:46	DLG	492592.8	5310456.01	Unknown	2178.333	19.5	189.966°	Site-Milli-Q,stop recording,,
EVT	00/07/25	13:19:15	DLG	492589.5	5310455.94	Unknown	2178.213	20.1	140.879°	Site-Milli-Q,we're outside of the grid,,
EVT	00/07/25	13:19:29	DLG	492583.1	5310452.34	Unknown	2178.320	20.0	154.371°	Site-Milli-Q,looking south,,
EVT	00/07/25	13:20:05	DLG	492579.5	5310442.36	Unknown	2178.293	19.0	78.378°	Site-Milli-Q,going up to 20m alt,,
EVT	00/07/25	13:20:27	DLG	492579.9	5310442.5	Unknown	2178.472	19.5	88.661°	Site-Milli-Q,now looking east,,
EVT	00/07/25	13:29:00	DLG	492569.3	5310440.91	Unknown	2178.209	18.0	87.329°	Site-Milli-Q,moving east,,
EVT	00/07/25	13:29:19	DLG	492571.8	5310438.86	Unknown	2178.342	18.1	87.315°	Site-Milli-Q,, DIFFUSE,start recording 00G25093
EVT	00/07/25	13:29:42	DLG	492575.2	5310435.08	Unknown	2178.357	18.4	88.387°	Site-Milli-Q,moving et a speed of 0.4 joi gain,,
EVT	00/07/25	13:35:58	DLG	492587.4	5310440.52	Unknown	2178.486	19.4	332.552°	Site-Milli-Q,stop recording,,
EVT	00/07/25	13:37:07	DLG	492606.3	5310455.01	Unknown	2178.271	20.0	91.633°	Site-Milli-Q,trying to figure where we are,,
EVT	00/07/25	13:38:00	DLG	492616.2	5310444.19	Unknown	2174.831	18.9	90.683°	Site-Milli-Q,circulate calibration,,
EVT	00/07/25	13:38:22	DLG	492616.8	5310445.37	Unknown	2174.973	11.7	191.977°	Site-Milli-Q,doing a 360 with Jason,,
EVT	00/07/25	13:43:42	DLG	492617.3	5310447.22	Unknown	2174.870	19.5	280.416°	Site-Milli-Q,going back west of the grid,,
EVT	00/07/25	13:47:39	DLG	492582.6	5310446.14	Unknown	2175.010	21.7	91.674°	Site-Milli-Q,trying to get the same line we had,,
EVT	00/07/25	13:47:49	DLG	492582.6	5310446.14	Unknown	2175.017	22.2	92.258°	Site-Milli-Q,going east,,
EVT	00/07/25	13:50:31	DLG	492582.1	5310446.67	Unknown	2183.120	14.9	90.558°	Site-Milli-Q,we're over Milli-Q,,
EVT	00/07/25	13:50:50	DLG	492583.2	5310446.22	Unknown	2183.182	14.8	91.071°	Site-Milli-Q,, DIFFUSE,start recording 00G25094
EVT	00/07/25	13:51:00	DLG	492581.0	5310446.18	Unknown	2182.883	15.6	91.832°	Site-Milli-Q,going east,,
EVT	00/07/25	13:51:05	DLG	492581.0	5310446.18	Unknown	2182.388	15.6	90.896°	Site-Milli-Q,heading 093,,
EVT	00/07/25	13:51:35	DLG	492581.5	5310445.23	Unknown	2180.074	17.8	89.969°	Site-Milli-Q,going up to 17m alt,,
EVT	00/07/25	13:53:30	DLG	492587.1	5310445.72	Unknown	2178.175	20.3	91.007°	Site-Milli-Q,moving at 0.4 joi gain,,
EVT	00/07/25	14:03:47	DLG	492628.9	5310444.14	Unknown	2178.113	15.5	86.941°	Site-Milli-Q,still moving east ,,
EVT	00/07/25	14:04:08	DLG	492631.6	5310444.68	Unknown	2178.133	14.0	86.899°	Site-Milli-Q,over a structure again,,
EVT	00/07/25	14:09:17	DLG	492656.2	5310444.44	Unknown	2178.275	24.2	86.557°	Site-Milli-Q,we've been moving for more than 50 m to the east,,
EVT	00/07/25	14:12:02	DLG	492667.5	5310442.81	Unknown	2188.248	18.2	85.048°	Site-Milli-Q,stop moving,,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	14:12:50	DLG	492668.6	5310442.52	Unknown	2188.214	20.2	174.375°	Site-Milli-Q,stop recording,,
EVT	00/07/25	14:13:16	DLG	492668.6	5310442.52	Unknown	2188.573	20.2	172.210°	Site-Milli-Q,making a turn to look south,,
EVT	00/07/25	14:13:27	DLG	492668.8	5310439.9	Unknown	2188.694	20.1	176.395°	Site-Milli-Q,heading 172,,
EVT	00/07/25	14:13:48	DLG	492667.7	5310437.43	Unknown	2188.654	19.6	172.200°	Site-Milli-Q,switching jaz disk,,
EVT	00/07/25	14:14:28	DLG	492667.1	5310432.25	Unknown	2188.354	19.2	266.780°	Site-Milli-Q,waiting for medea,,
EVT	00/07/25	14:14:55	DLG	492666.4	5310434.18	Unknown	2188.317	19.4	270.985°	Site-Milli-Q,set up pointing west alt 18 m,,
EVT	00/07/25	14:15:18	DLG	492666.4	5310434.18	Unknown	2188.291	19.1	270.079°	Site-Milli-Q,, DIFFUSE,start recording 00G25095
EVT	00/07/25	14:17:00	DLG	492665.9	5310434.46	Unknown	2188.297	19.4	269.574°	Site-Milli-Q,starting line going west heading 271,,
EVT	00/07/25	14:17:27	DLG	492664.5	5310434.63	Unknown	2188.379	19.2	269.602°	Site-Milli-Q,altitude still around 20m speed 0.4 joy gain,,
EVT	00/07/25	14:22:25	DLG	492643.3	5310437.26	Unknown	2186.196	15.2	259.294°	Site-Milli-Q,bottom's coming up on us,,
EVT	00/07/25	14:22:36	DLG	492643.3	5310437.26	Unknown	2185.337	15.8	259.416°	Site-Milli-Q,altitude now 15m,,
EVT	00/07/25	14:24:36	DLG	492632.1	5310439.32	Unknown	2181.326	17.0	249.335°	Site-Milli-Q,going up to around 17m altitude,,
EVT	00/07/25	14:34:11	DLG	492602.5	5310439.47	Unknown	2178.329	18.6	264.689°	Site-Milli-Q,bad nav again,,
EVT	00/07/25	14:34:37	DLG	492586.9	5310431.37	Unknown	2178.236	18.7	264.590°	Site-Milli-Q,stop recording,,
EVT	00/07/25	14:35:39	DLG	492585.7	5310434.03	Unknown	2178.482	18.9	262.906°	Site-Milli-Q,we're under medea-SW of the grid 19m altitude,,
EVT	00/07/25	14:36:37	DLG	492581.5	5310435.88	Unknown	2178.305	19.9	97.323°	Site-Milli-Q,setting up the sonar,,
EVT	00/07/25	14:37:14	DLG	492579.6	5310432.66	Unknown	2178.216	18.6	52.341°	Site-Milli-Q,looking at Milli-Q,,
EVT	00/07/25	14:37:25	DLG	492579.1	5310432.74	Unknown	2178.196	18.6	52.727°	Site-Milli-Q,heading 051,,
EVT	00/07/25	14:40:07	DLG	492574.3	5310430.71	Unknown	2178.231	15.8	34.128°	Site-Milli-Q,, DIFFUSE,start recording 00G25096 hovering looking at Milli-Q
EVT	00/07/25	14:41:36	DLG	492572.5	5310430.54	Unknown	2178.196	15.7	34.148°	Site-Milli-Q,might be 10 degrees too north looking,,
EVT	00/07/25	14:42:41	DLG	492572.8	5310431.12	Unknown	2178.091	15.7	33.094°	Site-Milli-Q,stop recording,,
EVT	00/07/25	14:45:45	DLG	492573.0	5310430.65	Unknown	2178.156	15.7	41.873°	Site-Milli-Q,, DIFFUSE,start recording D2 00G25097 hovering looking 100 m ahead
EVT	00/07/25	14:51:46	DLG	492572.1	5310431.82	Unknown	2178.134	15.7	41.485°	Site-Milli-Q,stopped recording of sonar data,,
EVT	00/07/25	14:51:57	DLG	492572.1	5310431.82	Unknown	2178.054	15.8	41.189°	Site-Milli-Q,change of logger... shashank,,
EVT	00/07/25	15:13:31	DLG	492583.0	5310429.33	Unknown	2183.229	14.1	358.299°	decided to go find the patch diffuse flow '14' near Milli_Q,,,
EVT	00/07/25	15:17:02	DLG	492594.9	5310438.56	Unknown	2183.098	14.5	356.462°	near Milli-Q,, DIFFUSE,going to diffuse flow patch just west to MilliQ
EVT	00/07/25	15:19:16	DLG	492595.6	5310436.45	Unknown	2183.078	14.6	357.375°	near Milli-Q,starting logging file ..098,,,
EVT	00/07/25	15:20:36	DLG	492598.9	5310432.9	Unknown	2183.105	14.6	357.153°	we are diffuse flow D2....doing forward hovering on the site,,,
EVT	00/07/25	15:22:17	DLG	492600.9	5310430.34	Unknown	2183.160	14.6	356.783°	stopped recording ,,,,
EVT	00/07/25	15:28:24	DLG	492596.1	5310437.18	Unknown	2178.161	19.3	357.610°	going to do a bathy survey...00G25099,,,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	15:29:03	DLG	492596.1	5310437.18	Unknown	2178.078	19.4	355.855°	started recording....,,
EVT	00/07/25	15:43:24	DLG	492607.2	5310476.55	Unknown	2178.096	17.9	50.420°	stopped recording....,,
EVT	00/07/25	15:43:40	DLG	492606.8	5310474.65	Unknown	2178.243	17.8	175.243°	turning jason due south...180 to the right.,,
EVT	00/07/25	15:44:02	DLG	492606.6	5310475.55	Unknown	2178.209	18.3	175.705°	altitude is 18and half.,,
EVT	00/07/25	15:53:17	DLG	492607.1	5310475.26	Unknown	2180.430	15.9	175.139°	had started recording 3minutes ago...stopped now.,,
EVT	00/07/25	15:53:28	DLG	492604.8	5310475.34	Unknown	2184.157	12.4	173.918°	(that was run 100),,
EVT	00/07/25	15:54:56	DLG	492601.5	5310473.89	Unknown	2196.474	3.1	176.902°	looks like diffuse flow.,,
EVT	00/07/25	15:58:35	DLG	492603.3	5310446.48	Unknown	2195.369	2.7	84.459°	VID_GRAB,,
EVT	00/07/25	15:58:51	DLG	492606.0	5310450.2	Unknown	2195.482	2.5	56.903°	VID_GRAB,medusa,
EVT	00/07/25	15:58:56	DLG	492606.0	5310450.2	Unknown	2195.881	2.3	57.348°	VID_GRAB,,
EVT	00/07/25	15:59:03	DLG	492607.2	5310450.23	Unknown	2195.788	2.3	58.337°	VID_GRAB,,
EVT	00/07/25	15:59:23	DLG	492607.2	5310450.91	Unknown	2196.141	1.9	58.916°	shimmering water.,,
EVT	00/07/25	15:59:45	DLG	492607.2	5310451.64	Unknown	2195.422	2.7	62.475°	, DIFFUSE,flow all over the place
EVT	00/07/25	16:00:07	DLG	492608.1	5310453.12	Unknown	2194.896	3.0	108.835°	surveying area to find how big the patch is.,,
EVT	00/07/25	16:00:15	DLG	492608.1	5310453.12	Unknown	2194.689	3.1	110.680°	VID_GRAB,,
EVT	00/07/25	16:00:32	DLG	492610.8	5310456.88	Unknown	2193.770	3.6	123.085°	VID_GRAB,more of patch,
EVT	00/07/25	16:00:44	DLG	492613.6	5310456.98	Unknown	2193.158	4.2	123.731°	VID_GRAB,chimney
EVT	00/07/25	16:01:02	DLG	492613.1	5310457.21	Unknown	2193.151	4.8	119.019°	VID_GRAB,
EVT	00/07/25	16:01:12	DLG	492613.1	5310457.21	Unknown	2193.211	5.1	113.628°	VID_GRAB,
EVT	00/07/25	16:01:25	DLG	492609.8	5310456.31	Unknown	2193.903	4.6	99.613°	VID_GRAB,
EVT	00/07/25	16:01:33	DLG	492609.8	5310456.31	Unknown	2193.890	4.6	89.262°	VID_GRAB,
EVT	00/07/25	16:02:02	DLG	492604.2	5310453.95	Unknown	2194.179	4.0	67.463°	VID_GRAB,
EVT	00/07/25	16:02:20	DLG	492604.7	5310451.37	Unknown	2195.275	2.9	49.855°	VID_GRAB,
EVT	00/07/25	16:02:28	DLG	492604.7	5310451.37	Unknown	2195.168	2.9	46.469°	VID_GRAB,
EVT	00/07/25	16:02:45	DLG	492605.2	5310450.25	Unknown	2195.055	2.8	23.983°	tag on the side.,,
EVT	00/07/25	16:03:05	DLG	492607.2	5310448.29	Unknown	2195.568	2.2	8.673°	VID_GRAB,also note tag on the side
EVT	00/07/25	16:03:11	DLG	492607.2	5310448.29	Unknown	2195.317	2.6	356.745°	VID_GRAB,
EVT	00/07/25	16:03:22	DLG	492606.5	5310446.4	Unknown	2195.082	2.6	345.418°	VID_GRAB,
EVT	00/07/25	16:03:35	DLG	492606.5	5310446.4	Unknown	2195.394	2.4	316.926°	VID_GRAB,
EVT	00/07/25	16:03:40	DLG	492609.1	5310445.4	Unknown	2195.628	1.9	318.799°	VID_GRAB,
EVT	00/07/25	16:03:49	DLG	492609.1	5310445.4	Unknown	2195.324	2.0	325.958°	VID_GRAB,
EVT	00/07/25	16:04:06	DLG	492609.1	5310445.4	Unknown	2194.656	2.8	329.707°	VID_GRAB,
EVT	00/07/25	16:04:21	DLG	492609.1	5310445.4	Unknown	2195.830	1.8	330.212°	VID_GRAB,,
EVT	00/07/25	16:06:13	DLG	492608.9	5310443.4	Unknown	2195.142	2.3	301.152°	VID_GRAB,,
EVT	00/07/25	16:06:49	DLG	492610.9	5310443.65	Unknown	2195.175	2.3	301.747°	high resolution diffuse flow being measured to file 101.,,
EVT	00/07/25	16:07:02	DLG	492610.9	5310443.65	Unknown	2195.149	2.3	300.830°	...D2 diffuse flow being measured,,
EVT	00/07/25	16:07:29	DLG	492606.2	5310443.32	Unknown	2195.109	2.2	300.243°	, DIFFUSE,high resolution recording being done
EVT	00/07/25	16:08:58	DLG	492607.0	5310445.16	Unknown	2192.561	5.2	335.342°	, DIFFUSE,stopped recording
EVT	00/07/25	16:10:51	DLG	492608.0	5310461.4	Unknown	2195.362	3.1	348.095°	sonar being tipped back so as not to interfere with P&T camera.,,
EVT	00/07/25	16:18:17	DLG	492615.5	5310465.75	Unknown	2193.440	3.7	54.858°	changed course..almost North,,

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EVT	00/07/25	16:24:44	DLG	492613.3	5310487.1	Unknown	2189.050	7.0	279.326°	crab on smoke and mirrors.,,
EVT	00/07/25	16:24:53	DLG	492613.3	5310487.1	Unknown	2185.728	10.5	287.295°	wow..look at that.,,
EVT	00/07/25	17:20:15	DLG	492646.5	5310658.64	Unknown	2180.711	9.1	283.660°	VID_GRAB,,
EVT	00/07/25	17:20:23	DLG	492645.5	5310657.62	Unknown	2180.585	9.4	282.912°	VID_GRAB,,
EVT	00/07/25	17:20:37	DLG	492645.5	5310657.62	Unknown	2180.306	9.1	282.891°	VID_GRAB,,
EVT	00/07/25	17:20:52	DLG	492646.2	5310654.89	Unknown	2180.019	9.8	282.032°	VID_GRAB,,
EVT	00/07/25	17:22:10	DLG	492646.8	5310648.02	Unknown	2178.797	12.0	316.008°	has been decided to go further north from S&M toeads bigger smokers....,
EVT	00/07/25	17:22:41	DLG	492644.0	5310655.08	Unknown	2178.910	10.1	60.604°	the crab last mentioned was NOT on S&M but on another smoker further north of S&M,,
EVT	00/07/25	17:34:37	DLG	492627.8	5310655.88	Unknown	2192.512	2.8	314.209°	VID_GRAB,wall behind grotto,,
EVT	00/07/25	17:35:00	DLG	492627.8	5310655.88	Unknown	2192.906	2.7	326.927°	VID_GRAB,,
EVT	00/07/25	17:35:39	DLG	492627.8	5310655.88	Unknown	2191.579	3.5	5.351°	VID_GRAB,diffuse flow on wall W of Grotto,,
EVT	00/07/25	17:35:51	DLG	492627.8	5310655.88	Unknown	2190.773	4.3	19.310°	wall to the W of grotto,,
EVT	00/07/25	17:36:56	DLG	492611.7	5310661.49	Unknown	2188.073	6.9	42.186°	some smoke there,,
EVT	00/07/25	17:37:09	DLG	492635.2	5310662.94	Unknown	2188.079	7.2	42.803°	VID_GRAB,,
EVT	00/07/25	17:37:38	DLG	492634.8	5310663.89	Unknown	2186.419	8.4	18.285°	VID_GRAB,instrument,,
EVT	00/07/25	17:37:50	DLG	492634.8	5310663.89	Unknown	2185.916	9.2	18.864°	instrument on wall ,,,
EVT	00/07/25	17:37:59	DLG	492634.9	5310664.84	Unknown	2185.903	9.0	18.284°	smoker next to instrument,,
EVT	00/07/25	17:38:04	DLG	492634.9	5310664.84	Unknown	2185.922	8.9	19.193°	VID_GRAB,,
EVT	00/07/25	17:38:16	DLG	492634.9	5310664.84	Unknown	2185.334	4.2	19.576°	some mre smoke,,
EVT	00/07/25	17:38:28	DLG	492633.5	5310665.67	Unknown	2185.355	8.7	17.603°	VID_GRAB,W of Grotto,,
EVT	00/07/25	17:39:50	DLG	492633.0	5310668.52	Unknown	2184.075	8.7	49.150°	doing a reconnaissance tour of the are around the smokers...right now seeing wall on the W of Grotto,,
EVT	00/07/25	17:40:25	DLG	492631.8	5310667.1	Unknown	2183.062	10.4	26.325°	VID_GRAB,, PLUME,multiple vents on the West side of grotto
EVT	00/07/25	17:40:53	DLG	492631.8	5310667.1	Unknown	2182.364	13.0	347.215°	VID_GRAB,top of grotto,,
EVT	00/07/25	17:41:24	DLG	492635.9	5310662.47	Unknown	2185.364	10.6	348.858°	VID_GRAB,hoboe instrument,,
EVT	00/07/25	17:42:16	DLG	492634.0	5310662.1	Unknown	2186.867	10.1	358.059°	VID_GRAB,,
EVT	00/07/25	17:44:28	DLG	492625.0	5310669.47	Unknown	2187.420	2.1	296.159°	video tapes changed,,
EVT	00/07/25	17:44:54	DLG	492624.7	5310670.88	Unknown	2185.629	2.5	356.637°	VID_GRAB,still on the wall W of Grotto,
EVT	00/07/25	17:49:04	DLG	492614.0	5310669.53	Unknown	2182.750	2.6	149.150°	starfish,,
EVT	00/07/25	17:56:16	DLG	492615.8	5310661.13	Unknown	2184.577	1.9	107.905°	we've landed...and looking at grotto (hopefully),,
EVT	00/07/25	17:57:27	DLG	492616.8	5310661.42	Unknown	2184.612	2.6	106.568°	perched on the wall facing grotto
EVT	00/07/25	17:58:30	DLG	492617.9	5310660.89	Unknown	2184.528	2.2	106.642°, ..to do plume imaging ..about 20m away ,,
EVT	00/07/25	18:03:24	DLG	492616.5	5310662.61	Unknown	2184.635	2.5	106.208°	, PLUME,started recording 00G25102
EVT	00/07/25	18:03:40	DLG	492617.0	5310661.2	Unknown	2184.535	2.5	106.007°	looking S to Grotto,,
EVT	00/07/25	18:06:14	DLG	492617.7	5310661.06	Unknown	2184.628	2.2	106.023°	
EVT	00/07/25	18:21:45	DLG	492616.7	5310661.92	Unknown	2184.628	3.4	104.567°	stopped recording of plume data..looks like we didnt get the main plume....,
EVT	00/07/25	18:22:10	DLG	492615.9	5310661.49	Unknown	2184.635	3.4	104.602°	we're going to rotate left a bit,

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EVT	00/07/25	18:49:27	DLG	492615.3	5310661.12	Unknown	2183.135	1.6	155.591°	altering heading,,
EVT	00/07/25	18:50:57	DLG	492621.4	5310661.49	Unknown	2181.245	2.6	202.076°	lost perch, finding new landing spot,,
EVT	00/07/25	18:52:26	DLG	492614.6	5310664.35	Unknown	2183.113	1.4	88.999°	trying to settle down on a landing spot,,
EVT	00/07/25	18:55:09	DLG	492621.4	5310663.31	Unknown	2184.146	2.7	94.395°	preparing to do a compass calibration,,
EVT	00/07/25	19:02:15	DLG	492606.9	5310659.03	Unknown	2100.863	30.0	314.085°	100m off the bottom, and rising to perform compass calibration,
EVT	00/07/25	19:04:55	DLG	492609.7	5310657.58	Unknown	2083.796	30.0	105.498°	stopped ascending at a depth of 2083.67,
EVT	00/07/25	19:08:58	DLG	492616.8	5310662.83	Unknown	2074.288	30.0	283.178°	ascending again,
EVT	00/07/25	19:09:15	DLG	492616.8	5310662.83	Unknown	2070.924	30.0	282.886°	getting Yogi for assistance with compass calibration,
EVT	00/07/25	19:14:00	DLG	492616.5	5310663.43	Unknown	2063.203	30.0	277.783°	150m off bottom,
EVT	00/07/25	19:17:19	DLG	492614.1	5310656.64	Unknown	2063.215	30.0	298.075°	recalibrating compass,
EVT	00/07/25	19:21:39	DLG	492614.2	5310646.87	Unknown	2063.046	30.0	96.261°	verifying compass recalibration,
EVT	00/07/25	19:22:46	DLG	492607.5	5310655.51	Unknown	2063.213	30.0	87.847°	rebooting systems,
EVT	00/07/25	19:22:58	DLG	492607.5	5310655.51	Unknown	2061.368	0.0	51.159°	JASON systems that is,
EVT	00/07/25	19:43:44	DLG	492638.8	5310655.35	Unknown	2187.244	10.1	63.632°	video surveillance of the smokers,
EVT	00/07/25	19:43:53	DLG	492638.8	5310655.35	Unknown	2187.224	10.3	63.891°	VID_GRAB,top of Grotto
EVT	00/07/25	19:44:31	DLG	492637.5	5310657.99	Unknown	2187.284	9.2	63.843°	VID_GRAB,smoker on the top of Grotto
EVT	00/07/25	19:44:45	DLG	492636.8	5310658.32	Unknown	2187.220	3.3	86.014°	VID_GRAB,
EVT	00/07/25	19:46:44	DLG	492634.0	5310660.05	Unknown	2187.371	6.3	7.059°	VID_GRAB,
EVT	00/07/25	19:47:01	DLG	492627.7	5310661.75	Unknown	2185.380	8.1	8.872°	VID_GRAB,Hobo on Grotto
EVT	00/07/25	19:47:25	DLG	492627.7	5310663.27	Unknown	2185.620	6.6	12.711°	VID_GRAB,multiple smokers on the North section of Grotto
EVT	00/07/25	19:47:44	DLG	492627.7	5310663.27	Unknown	2185.027	8.5	14.829°	VID_GRAB,,
EVT	00/07/25	19:48:02	DLG	492633.3	5310665.18	Unknown	2183.676	10.1	12.756°	VID_GRAB,smoking on side of Grotto,
EVT	00/07/25	19:48:06	DLG	492633.3	5310665.18	Unknown	2183.490	10.2	11.445°	VID_GRAB,,
EVT	00/07/25	19:48:39	DLG	492633.7	5310666.08	Unknown	2182.924	10.7	13.871°	VID_GRAB,heavy smoking at top of Grotto,
EVT	00/07/25	19:48:51	DLG	492633.7	5310666.08	Unknown	2182.957	10.7	13.903°	VID_GRAB,smoke cloud from top of Grotto,
EVT	00/07/25	19:49:07	DLG	492633.7	5310665.93	Unknown	2182.937	10.8	17.544°	smoke from Grotto seems to be going relatively straight up,,
EVT	00/07/25	19:50:10	DLG	492637.0	5310656.4	Unknown	2185.398	11.3	36.447°	moving to Southern Grotto structure,,
EVT	00/07/25	19:50:45	DLG	492637.6	5310655.49	Unknown	2184.858	12.7	53.239°	VID_GRAB,southern peak of Grotto,
EVT	00/07/25	19:51:08	DLG	492638.6	5310654.84	Unknown	2184.719	12.8	53.169°	VID_GRAB,smoke cloud from top of southern peak,
EVT	00/07/25	19:51:24	DLG	492637.5	5310655.16	Unknown	2184.699	12.7	53.101°	VID_GRAB,another grab of the smoke from the southern Grotto structure,
EVT	00/07/25	19:52:25	DLG	492638.1	5310655.95	Unknown	2184.180	13.0	39.030°	should be able to get imaging of the interaction between two plumes,,
EVT	00/07/25	19:52:45	DLG	492636.8	5310657.48	Unknown	2183.758	12.8	242.041°	looking for a parking spot to image Grotto,,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	19:58:55	DLG	492615.1	5310653.99	Unknown	2186.944	1.3	356.693°	Site-Grotto,VID_GRAB,sonar system on talus slope
EVT	00/07/25	19:59:31	DLG	492607.8	5310655.67	Unknown	2187.104	1.5	43.232°	Site-Grotto,VID_GRAB,sonar system on talus with crab down slope
EVT	00/07/25	19:59:56	DLG	492616.2	5310655.31	Unknown	2187.090	0.9	43.641°	Site-Grotto,"maneouvering into parking spot on talus slope, preparing to image Grotto",
EVT	00/07/25	20:03:14	DLG	492622.9	5310658.53	Unknown	2189.797	1.4	35.724°	Site-Grotto,repositioning into different parking spot (was unstable),
EVT	00/07/25	20:05:41	DLG	492621.7	5310658.91	Unknown	2189.738	1.3	17.614°	Site-Grotto,found and settled in to a stable parking spot,,
EVT	00/07/25	20:11:53	DLG	492620.7	5310658.65	Unknown	2189.766	1.3	16.729°	Site-Grotto,testing the range of motion of sonar rotator,,
EVT	00/07/25	20:21:39	DLG	492621.6	5310658.74	Unknown	2189.815	1.3	15.440°	Site-Grotto,setting up sonar for plume imaging,,
EVT	00/07/25	20:26:11	DLG	492618.4	5310657.96	Unknown	2189.733	1.4	15.472°	Site-Grotto,VID_GRAB,,
EVT	00/07/25	20:30:31	DLG	492621.6	5310658.25	Unknown	2189.703	1.4	15.193°	Site-Grotto,, PLUME,"start recording plume sonar imaging P2 00G25103, stationary"
EVT	00/07/25	20:32:48	DLG	492621.4	5310658.77	Unknown	2189.749	1.3	14.403°	Site-Grotto,VID_GRAB,sonar imaging equipment looing vertical,
EVT	00/07/25	20:33:04	DLG	492620.9	5310658.58	Unknown	2189.745	1.3	14.266°	Site-Grotto,VID_GRAB,,
EVT	00/07/25	20:39:05	DLG	492615.9	5310657.26	Unknown	2189.792	1.3	22.294°	Site-Grotto,"stop recording, JASON heading unstable",,
EVT	00/07/25	20:41:15	DLG	492615.9	5310657.26	Unknown	2190.677	0.7	11.945°	Site-Grotto,found new perch and parked (about 1m closer and down slope somewhat),,
EVT	00/07/25	20:42:51	DLG	492615.9	5310657.26	Unknown	2190.700	0.7	11.173°	Site-Grotto,testing rotator range of motion,,
EVT	00/07/25	20:43:55	DLG	492615.9	5310657.26	Unknown	2190.679	0.7	11.089°	Site-Grotto,resetting sonar,,
EVT	00/07/25	20:45:07	DLG	492615.9	5310657.26	Unknown	2190.706	0.7	10.584°	Site-Grotto,, PLUME,start recording P2 00G25104
EVT	00/07/25	21:19:44	DLG	492615.9	5310657.26	Unknown	2190.762	0.7	32.437°	Site-Grotto,stop recording,,
EVT	00/07/25	21:20:27	DLG	492615.9	5310657.26	Unknown	2190.729	0.7	32.305°	Site-Grotto,, PLUME,recording P2 00G25105
EVT	00/07/25	21:23:39	DLG	492615.9	5310657.26	Unknown	2190.793	0.7	32.099°	Site-Grotto,stop recording,,
EVT	00/07/25	21:24:31	DLG	492615.9	5310657.26	Unknown	2190.829	0.7	32.184°	Site-Grotto,setting up for coherent doppler P3,,
EVT	00/07/25	21:35:06	DLG	492619.2	5310657.03	Unknown	2190.833	0.7	30.725°	Site-Grotto,, PLUME,start recording P3 00G25106
EVT	00/07/25	21:56:38	DLG	492619.2	5310657.03	Unknown	2190.871	0.7	28.439°	Site-Grotto,stop recording,,
EVT	00/07/25	21:59:10	DLG	492619.2	5310657.03	Unknown	2190.884	0.7	27.804°	Site-Grotto,saving bitmap images of P3 scan displays,,
EVT	00/07/25	22:01:41	DLG	492614.4	5310655.28	Unknown	2190.991	0.7	26.818°	Site-Grotto,recorded bitmap images of sonar display at approximately 5 degree intervals,,

	date	time (GMT)	x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	22:03:16	DLG	492614.4	5310655.28	Unknown	2190.937	0.7	26.794° Site-Grotto,VID_GRAB,just missed an interesting looking creature on the Brow camera (video decks 1 and 3),
EVT	00/07/25	22:14:31	DLG	492618.3	5310656.46	Unknown	2190.982	0.7	30.427° Site-Grotto,, PLUME,start recording P5 00G25107
EVT	00/07/25	22:15:32	DLG	492618.3	5310656.46	Unknown	2191.015	0.7	30.570° Site-Grotto,stop recording,,
EVT	00/07/25	22:17:01	DLG	492618.3	5310656.46	Unknown	2190.968	0.7	30.236° Site-Grotto,, PLUME,"start recording P5 00G25108, 60 degrees"
EVT	00/07/25	22:17:50	DLG	492618.3	5310656.46	Unknown	2191.015	0.7	29.868° Site-Grotto,previous P5 imaging (00G25107) was at 76 degrees,,
EVT	00/07/25	22:18:11	DLG	492618.3	5310656.46	Unknown	2190.982	0.7	29.891° Site-Grotto,stop recording,,
EVT	00/07/25	22:20:02	DLG	492623.0	5310656.34	Unknown	2191.041	0.7	29.579° Site-Grotto,, PLUME,start recording P5 00G25109 50 degrees
EVT	00/07/25	22:21:01	DLG	492623.0	5310656.34	Unknown	2191.015	0.7	29.444° Site-Grotto,stop recording,,
EVT	00/07/25	22:22:01	DLG	492623.0	5310656.34	Unknown	2191.055	0.7	29.109° Site-Grotto,, PLUME,start recording P5 00G25110 40 degrees
EVT	00/07/25	22:23:03	DLG	492623.0	5310656.34	Unknown	2191.075	0.7	28.856° Site-Grotto,stop recording,,
EVT	00/07/25	22:24:29	DLG	492621.4	5310656.04	Unknown	2191.081	0.7	28.330° Site-Grotto,preparing to record incoherent doppler P4,,
EVT	00/07/25	22:25:04	DLG	492621.4	5310656.04	Unknown	2191.041	0.7	28.313° Site-Grotto,recalibrating,,
EVT	00/07/25	22:34:26	DLG	492616.8	5310654.66	Unknown	2191.115	0.7	28.017° Site-Grotto,, PLUME,start recording P4 00G25111
EVT	00/07/25	22:48:13	DLG	492618.2	5310655.94	Unknown	2191.173	0.7	24.351° Site-Grotto,stop recording,,
EVT	00/07/25	22:52:05	DLG	492618.2	5310655.94	Unknown	2191.155	0.7	23.449° Site-Grotto,setting sonar,,
EVT	00/07/25	22:53:43	DLG	492620.5	5310657.31	Unknown	2191.192	0.7	23.109° Site-Grotto,VID_GRAB,deep sea cheerios,
EVT	00/07/25	22:54:35	DLG	492620.5	5310657.31	Unknown	2191.175	0.7	23.040° Site-Grotto,VID_GRAB,deep sea cheerios again,
EVT	00/07/25	22:56:45	DLG	492620.5	5310657.31	Unknown	2191.159	0.7	22.472° Site-Grotto,rebooting SM 2000,,
EVT	00/07/25	22:59:13	DLG	492620.5	5310657.31	Unknown	2191.202	0.7	22.110° Site-Grotto,recalibrating sonar,,
EVT	00/07/25	23:04:38	DLG	492615.6	5310656.5	Unknown	2191.292	0.7	21.215° Site-Grotto,, PLUME, start recording P7 oo
EVT	00/07/25	23:05:08	DLG	492615.6	5310656.5	Unknown	2191.259	0.7	21.103° Site-Grotto,that's P7 00G25112 looking at Grotto,,
EVT	00/07/25	23:09:14	DLG	492615.6	5310656.5	Unknown	2191.397	0.7	20.731° Site-Grotto,stop recording,,
EVT	00/07/25	23:09:33	DLG	492615.6	5310656.5	Unknown	2191.303	0.7	20.652° Site-Grotto,recalibrating rotator,,
EVT	00/07/25	23:10:56	DLG	492615.6	5310656.5	Unknown	2191.316	0.7	20.424° Site-Grotto,still sitting there ,,
EVT	00/07/25	23:20:25	DLG	492619.0	5310656.93	Unknown	2191.370	0.7	18.460° Site-Grotto,setting sonar,,
EVT	00/07/25	23:22:37	DLG	492617.0	5310655.88	Unknown	2191.410	0.7	17.839° Site-Grotto,, PLUME,"start recording D6 00G25113 it's a diffuse, not a plume"
EVT	00/07/25	23:25:53	DLG	492617.0	5310655.88	Unknown	2191.416	0.7	17.488° Site-Grotto,stop recording,,
EVT	00/07/25	23:34:20	DLG	492613.3	5310656.22	Unknown	2191.483	0.7	16.570° Site-Grotto,, DIFFUSE,start recording D7 00G25114
EVT	00/07/25	23:35:53	DLG	492613.3	5310656.22	Unknown	2191.459	0.7	16.135° Site-Grotto,stop recording,
EVT	00/07/25	23:38:49	DLG	492613.3	5310656.22	Unknown	2190.976	0.9	39.046° Site-Grotto,taking off,
EVT	00/07/25	23:40:50	DLG	492620.0	5310659.03	Unknown	2190.309	2.9	6.161° Site-Grotto,going up to about 3 m altitude,

	date	time (GMT)		x (UTM)	y (UTM)	Nav quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/25	23:43:00	DLG	492629.2	5310662.59	Unknown	2182.720	8.0	16.248°	Site-Grotto,going up Grotto,
EVT	00/07/25	23:43:37	DLG	492629.3	5310662.79	Unknown	2182.292	8.2	15.083°	Site-Grotto,stable at 8m,
EVT	00/07/25	23:43:45	DLG	492627.7	5310662.94	Unknown	2182.224	8.3	15.433°	Site-Grotto,altitude,
EVT	00/07/25	23:48:05	DLG	492623.4	5310678.75	Unknown	2186.059	3.1	12.031°	Site-Grotto,moving looking at some diffuse flow,
EVT	00/07/25	23:48:13	DLG	492623.4	5310678.75	Unknown	2187.079	2.3	12.488°	Site-Grotto,not moving,
EVT	00/07/25	23:48:34	DLG	492625.3	5310676.64	Unknown	2187.199	2.2	13.525°	Site-Grotto,VID_GRAB,
EVT	00/07/25	23:48:49	DLG	492626.2	5310676.39	Unknown	2187.245	2.3	12.711°	Site-Grotto,diffuse flow with tube worms,
EVT	00/07/25	23:49:10	DLG	492625.6	5310676.84	Unknown	2187.172	2.2	11.791°	Site-Grotto,VID_GRAB,diffuse flow
EVT	00/07/25	23:51:35	DLG	492632.5	5310679.89	Unknown	2187.346	4.7	29.698°	Site-Grotto,suspecting to look at little structure between Lobo and Groto,
EVT	00/07/25	23:52:27	DLG	492631.9	5310681.53	Unknown	2187.320	5.4	28.220°	Site-Grotto,waiting for medea,
EVT	00/07/25	23:53:41	DLG	492637.8	5310681.14	Unknown	2189.028	2.4	27.558°	Site-Grotto,waiting!.,
EVT	00/07/25	23:57:58	DLG	492641.5	5310675.7	Unknown	2190.822	6.2	61.804°	Site-Grotto,VID_GRAB,smokers at Grotto
EVT	00/07/25	23:58:36	DLG	492641.1	5310676.63	Unknown	2190.205	6.5	60.811°	Site-Grotto,heading 072,

Event Log VIP 2000 Cruise 7/26/00										
	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	00:00:40.0	DLG	492639.4	5310678.8	Unknown	2190.245	6.6	60.809°	Site-Lobo,looking at Lobo,,,,,,,,
EVT	00/07/26	00:01:26.0	DLG	492640.0	5310676.2	Unknown	2190.303	2.4	59.483°	Site-Lobo,"the somkers on the last frame were at Lobo, not Grotto",,,,,,,,,
EVT	00/07/26	00:03:02.0	DLG	492647.9	5310685.6	Unknown	2189.243	9.4	33.243°	Site-Lobo,VID_GRAB,another smoker at Lobo,,,,,,,,
EVT	00/07/26	00:04:17.0	DLG	492645.2	5310688.4	Unknown	2192.281	6.0	28.598°	Site-Lobo,VID_GRAB,tube worms,,,,,,,,
EVT	00/07/26	00:05:37.0	DLG	492646.0	5310690.1	Unknown	2192.043	6.4	48.440°	Site-Lobo,looking SE at Lobo from NW,,,,,,,,
EVT	00/07/26	00:07:08.0	DLG	492650.8	5310698.8	Unknown	2192.103	7.3	53.988°	Site-Lobo,VID_GRAB,black smokers,,,,,,,,
EVT	00/07/26	00:07:28.0	DLG	492652.6	5310700.7	Unknown	2191.803	8.3	53.094°	Site-Lobo,almost on the top of Lobo altitude about 8m,,,,,,,,
EVT	00/07/26	00:08:18.0	DLG	492652.6	5310703.5	Unknown	2190.250	9.3	58.411°	Site-Lobo,waiting for medea,,,,,,,,
EVT	00/07/26	00:09:05.0	DLG	492653.8	5310706.4	Unknown	2191.379	7.0	62.555°	Site-Lobo,VID_GRAB,black smokers,,,,,,,,
EVT	00/07/26	00:09:14.0	DLG	492653.8	5310706.4	Unknown	2191.339	6.8	62.617°	Site-Lobo,moving around Lobo,,,,,,,,
EVT	00/07/26	00:11:00.0	DLG	492655.4	5310702.3	Unknown	2191.354	7.0	64.514°	Site-Lobo,still looking NE,,,,,,,,
EVT	00/07/26	00:11:54.0	DLG	492655.5	5310703.0	Unknown	2191.354	6.8	63.230°	Site-Lobo,VID_GRAB,black smoker at Lobo,,,,,,,,
EVT	00/07/26	00:14:17.0	DLG	492659.3	5310704.4	Unknown	2191.354	8.2	115.445°	Site-Lobo,moved a little north now looking at Lobo with heading 138 degrees ,,,,,,,,,
EVT	00/07/26	00:15:32.0	DLG	492658.3	5310704.6	Unknown	2191.175	8.4	114.623°	Site-Lobo,VID_GRAB,same black smokers -different angle,,,,,,,,
EVT	00/07/26	00:20:01.0	DLG	492660.3	5310705.7	Unknown	2190.243	10.2	129.895°	Site-Lobo,VID_GRAB,Lobo chimneys,,,,,,,,
EVT	00/07/26	00:20:25.0	DLG	492661.3	5310705.5	Unknown	2190.908	9.2	129.295°	Site-Lobo,moving a little north still looking at Lobo,
EVT	00/07/26	00:21:57.0	DLG	492665.5	5310706.0	Unknown	2190.816	11.2	153.690°	Site-Lobo,North of Lobo looking South ,
EVT	00/07/26	00:22:14.0	DLG	492666.1	5310704.1	Unknown	2191.694	10.6	175.720°	Site-Lobo,VID_GRAB,north side of Lobo
EVT	00/07/26	00:22:27.0	DLG	492665.3	5310701.3	Unknown	2191.668	10.2	171.793°	Site-Lobo,VID_GRAB,same one- closer
EVT	00/07/26	00:22:53.0	DLG	492664.7	5310699.0	Unknown	2191.502	11.1	173.055°	Site-Lobo,VID_GRAB,looking at diffuse flow
EVT	00/07/26	00:23:35.0	DLG	492667.5	5310697.8	Unknown	2192.513	9.6	184.792°	Site-Lobo,going down a bit toward the base of the structure,
EVT	00/07/26	00:24:23.0	DLG	492664.4	5310695.6	Unknown	2194.918	7.5	178.495°	Site-Lobo,VID_GRAB,tube worms-looks like they're dead
EVT	00/07/26	00:24:56.0	DLG	492664.8	5310695.9	Unknown	2194.651	7.7	179.361°	Site-Lobo,VID_GRAB,tube worms-closer
EVT	00/07/26	00:25:29.0	DLG	492664.2	5310696.3	Unknown	2193.432	8.9	179.459°	Site-Lobo,looking south on Lobo from the north end,
EVT	00/07/26	00:25:56.0	DLG	492664.4	5310695.9	Unknown	2195.485	7.0	179.114°	Site-Lobo,VID_GRAB,north of Lobo-altitude about 8m
EVT	00/07/26	00:26:49.0	DLG	492664.8	5310696.8	Unknown	2192.267	10.2	175.812°	Site-Lobo,going up a little bit,
EVT	00/07/26	00:27:45.0	DLG	492667.2	5310698.2	Unknown	2193.811	5.5	356.283°	Site-Lobo,moving south east of Lobo,
EVT	00/07/26	00:28:23.0	DLG	492665.4	5310699.4	Unknown	2198.515	2.1	0.628°	Site-Lobo,disregard last comment,
EVT	00/07/26	00:28:34.0	DLG	492665.4	5310699.4	Unknown	2198.294	2.3	0.045°	Site-Lobo,looking north-stable,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	00:29:40.0	DLG	492665.9	5310699.9	Unknown	2197.581	4.9	198.237°	Site-Lobo,VID_GRAB,looking south being east of Lobo
EVT	00/07/26	00:30:48.0	DLG	492666.4	5310697.5	Unknown	2196.245	6.3	149.338°	Site-Lobo,altitude's now about 6m,
EVT	00/07/26	00:32:05.0	DLG	492666.3	5310689.4	Unknown	2195.666	7.1	225.550°	Site-Lobo,VID_GRAB,Edifice-maybe Dante
EVT	00/07/26	00:33:10.0	DLG	492666.3	5310690.5	Unknown	2194.400	8.4	216.651°	Site-Lobo,waiting for medea,
EVT	00/07/26	00:34:36.0	DLG	492664.4	5310691.0	Unknown	2194.400	8.3	217.445°	Site-Lobo,VID_GRAB,tube worms (dead ?)
EVT	00/07/26	00:35:00.0	DLG	492664.3	5310689.4	Unknown	2194.567	7.2	215.000°	Site-Lobo,VID_GRAB,alvinellas
EVT	00/07/26	00:35:57.0	DLG	492662.6	5310688.4	Unknown	2194.515	7.5	218.103°	Site-Lobo,VID_GRAB,alvinellas
EVT	00/07/26	00:37:37.0	DLG	492659.6	5310687.5	Unknown	2194.309	8.5	227.070°	Site-Lobo,VID_GRAB,active chimney on the top
EVT	00/07/26	00:40:47.0	DLG	492660.2	5310687.8	Unknown	2194.388	8.3	218.431°	Site-Lobo,VID_GRAB,picture for Maureen!
EVT	00/07/26	00:41:35.0	DLG	492660.8	5310686.5	Unknown	2194.449	8.2	215.233°	Site-Lobo,VID_GRAB,diffuse
EVT	00/07/26	00:42:29.0	DLG	492659.9	5310687.4	Unknown	2191.397	11.0	196.789°	Site-Lobo,Still looking at Lobo from NE to SW,
EVT	00/07/26	00:44:26.0	DLG	492659.6	5310683.2	Unknown	2191.474	11.7	196.762°	Site-Lobo,moving a bit west ,
EVT	00/07/26	00:44:39.0	DLG	492659.6	5310683.2	Unknown	2191.534	11.7	196.569°	Site-Lobo,still looking at Lobo,
EVT	00/07/26	00:48:23.0	DLG	492660.0	5310684.0	Unknown	2191.452	11.8	197.189°	Site-Lobo,waiting for Medea to come into position,
EVT	00/07/26	01:02:00.0	DLG	492653.7	5310678.9	Unknown	2193.809	5.1	237.078°	Site-Lobo,VID_GRAB,Lobo
EVT	00/07/26	01:02:06.0	DLG	492653.7	5310678.9	Unknown	2193.815	5.1	208.870°	Site-Lobo,rebooting ,
EVT	00/07/26	01:03:47.0	DLG	492654.6	5310676.8	Unknown	2193.798	4.4	189.932°	Site-Lobo,calibrating sonar,
EVT	00/07/26	01:09:20.0	DLG	492653.3	5310676.2	Unknown	2193.957	4.2	86.158°	Site-Lobo,VID_GRAB,Lobo
EVT	00/07/26	01:12:15.0	DLG	492656.5	5310670.4	Unknown	2191.426	5.9	107.426°	Site-Lobo,VID_GRAB,probably Dante
EVT	00/07/26	01:12:26.0	DLG	492657.8	5310670.3	Unknown	2191.284	6.1	107.745°	Site-Lobo,still doing survey,
EVT	00/07/26	01:13:06.0	DLG	492657.6	5310669.8	Unknown	2191.428	5.8	107.601°	Site-Lobo,VID_GRAB,some kind of diffuse flow
EVT	00/07/26	01:15:16.0	DLG	492660.4	5310667.0	Unknown	2189.377	12.8	139.531°	Site-Lobo,VID_GRAB,smoke
EVT	00/07/26	01:15:35.0	DLG	492660.3	5310667.2	Unknown	2189.329	12.8	139.695°	Site-Lobo,VID_GRAB,Dante's smokers
EVT	00/07/26	01:16:25.0	DLG	492661.5	5310667.3	Unknown	2189.408	12.8	139.784°	Site-Lobo,heading SE,
EVT	00/07/26	01:21:15.0	DLG	492662.1	5310665.0	Unknown	2189.614	12.0	158.989°	Site-Lobo,VID_GRAB,Dante
EVT	00/07/26	01:22:29.0	DLG	492662.1	5310665.3	Unknown	2189.978	9.8	158.610°	Site-Lobo,VID_GRAB,funny looking structure on Dante
EVT	00/07/26	01:25:42.0	DLG	492674.5	5310668.7	Unknown	2189.921	13.5	58.863°	Site-Lobo,looking at Dante from south part,
EVT	00/07/26	01:29:43.0	DLG	492679.7	5310671.1	Unknown	2192.038	8.3	78.373°	Site-Lobo,must be looking at TP,
EVT	00/07/26	01:31:18.0	DLG	492690.4	5310676.6	Unknown	2187.271	12.2	89.006°	Site-Lobo,VID_GRAB, should be TP
EVT	00/07/26	01:32:18.0	DLG	492689.9	5310676.9	Unknown	2183.233	16.5	88.537°	Site-Lobo,altitude about 17 m,
EVT	00/07/26	01:32:31.0	DLG	492689.9	5310676.9	Unknown	2183.160	16.9	88.980°	Site-Lobo,must be looking at TP,
EVT	00/07/26	01:33:45.0	DLG	492681.8	5310688.0	Unknown	2182.794	19.0	84.011°	Site-Lobo,we're locked up or something,
EVT	00/07/26	01:34:17.0	DLG	492686.1	5310682.8	Unknown	2182.614	18.9	82.089°	Site-Lobo,it's back,
EVT	00/07/26	01:34:45.0	DLG	492689.7	5310679.5	Unknown	2182.350	17.6	84.357°	Site-Lobo,VID_GRAB,top of TP
EVT	00/07/26	01:40:14.0	DLG	492697.0	5310677.4	Unknown	2180.347	18.3	126.582°	Site-Lobo,VID_GRAB,diffuse flow-probably on Dante,
EVT	00/07/26	01:40:31.0	DLG	492697.0	5310677.4	Unknown	2180.366	17.8	109.766°	Site-Lobo,VID_GRAB,Dante,
EVT	00/07/26	01:41:14.0	DLG	492697.3	5310677.9	Unknown	2179.795	18.4	107.679°	Site-Lobo,VID_GRAB, NE part of Dante,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	01:43:02.0	DLG	492694.2	5310681.9	Unknown	2181.856	16.1	108.165°	Site-Lobo,VID_GRAB,"same structure on Dante, with black smoke coming out of it",
EVT	00/07/26	01:44:50.0	DLG	492694.8	5310680.9	Unknown	2182.980	14.8	108.958°	Site-Lobo,VID_GRAB,close up on the black smoke,
EVT	00/07/26	01:50:03.0	DLG	492689.6	5310680.3	Unknown	2182.998	17.8	109.791°	Site-Lobo,backing off ,,
EVT	00/07/26	01:51:22.0	DLG	492683.9	5310678.6	Unknown	2182.921	17.3	198.103°	Site-Lobo,heading south ,,
EVT	00/07/26	01:51:56.0	DLG	492683.0	5310679.5	Unknown	2183.070	17.2	198.192°	Site-Lobo,going up to 17m altitude,,
EVT	00/07/26	01:53:28.0	DLG	492683.0	5310679.9	Unknown	2182.878	16.3	269.677°	Site-Lobo,we're between Lobo and Dante,,
EVT	00/07/26	01:53:55.0	DLG	492683.9	5310680.8	Unknown	2183.092	16.2	269.112°	Site-Lobo,"looking west, altitude 16 m",,,
EVT	00/07/26	01:56:14.0	DLG	492674.6	5310682.8	Unknown	2183.256	19.4	268.712°	Site-Lobo,recalibrating sonar,,
EVT	00/07/26	02:02:05.0	DLG	492672.8	5310683.0	Unknown	2183.404	18.8	245.677°	Site-Lobo,setting sonar,,
EVT	00/07/26	02:03:21.0	DLG	492674.0	5310683.0	Unknown	2183.271	18.9	244.745°	Site-Lobo,altitude 18.9 m,,
EVT	00/07/26	02:03:45.0	DLG	492674.1	5310683.1	Unknown	2183.145	19.0	244.539°	Site-Lobo,heading west (249 degrees),,,
EVT	00/07/26	02:04:20.0	DLG	492675.0	5310682.7	Unknown	2182.953	19.2	244.302°	Site-Lobo,still between Lobo and Dante,,
EVT	00/07/26	02:06:29.0	DLG	492674.4	5310682.7	Unknown	2183.069	19.2	244.725°	Site-Lobo,, DIFFUSE,start recording D1 00G25115 diffuse hovering looking at back side of Grotto
EVT	00/07/26	02:09:50.0	DLG	492674.6	5310682.2	Unknown	2183.236	19.1	244.490°	Site-Lobo,stop recording,,
EVT	00/07/26	02:14:52.0	DLG	492663.3	5310681.0	Unknown	2187.004	15.3	244.168°	,stable at 19 m altitude looking at bottom for safety,,
EVT	00/07/26	02:16:27.0	DLG	492665.5	5310680.0	Unknown	2193.686	8.8	244.079°	,going down,,
EVT	00/07/26	02:18:48.0	DLG	492664.6	5310681.0	Unknown	2198.195	4.6	244.880°	,VID_GRAB,octopus on Grotto,
EVT	00/07/26	02:19:01.0	DLG	492664.0	5310681.3	Unknown	2198.116	4.7	244.950°	,stable at 5m altitude,,
EVT	00/07/26	02:19:13.0	DLG	492664.0	5310681.3	Unknown	2198.209	4.7	244.785°	,SM 2000 crashed,,
EVT	00/07/26	02:19:20.0	DLG	492663.7	5310681.0	Unknown	2198.235	4.7	245.290°	,rebooting,,
EVT	00/07/26	02:20:09.0	DLG	492664.0	5310681.1	Unknown	2198.204	4.7	244.439°	,VID_GRAB,another octopus,
EVT	00/07/26	02:20:51.0	DLG	492665.1	5310680.0	Unknown	2198.158	4.7	245.102°	,VID_GRAB,octopus,
EVT	00/07/26	02:21:16.0	DLG	492665.1	5310680.0	Unknown	2198.258	4.7	244.851°	,VID_GRAB,same octopus,
EVT	00/07/26	02:21:34.0	DLG	492665.1	5310680.4	Unknown	2198.193	4.7	245.719°	,recalibrating rotator ,,
EVT	00/07/26	02:22:24.0	DLG	492664.5	5310680.8	Unknown	2198.160	4.8	244.754°	,VID_GRAB,diffuse flow,
EVT	00/07/26	02:24:43.0	DLG	492663.3	5310680.7	Unknown	2198.253	4.7	245.829°	,, DIFFUSE,start recording 00G25116 elevator run looking at Grotto
EVT	00/07/26	02:25:00.0	DLG	492664.2	5310680.3	Unknown	2198.267	4.7	245.843°	,going up at 0.2 joy gain,,
EVT	00/07/26	02:27:10.0	DLG	492664.1	5310680.8	Unknown	2193.135	9.7	245.010°	,stop recording,,
EVT	00/07/26	02:27:17.0	DLG	492664.1	5310680.8	Unknown	2191.809	10.8	243.912°	,going back down again,,
EVT	00/07/26	02:30:22.0	DLG	492673.8	5310681.9	Unknown	2197.281	6.0	244.671°	,, DIFFUSE,start recording 00G25117
EVT	00/07/26	02:30:31.0	DLG	492673.8	5310681.9	Unknown	2197.214	6.2	244.272°	,elevator run again,,
EVT	00/07/26	02:30:59.0	DLG	492673.0	5310681.8	Unknown	2197.234	6.3	244.057°	,stop recording,,
EVT	00/07/26	02:31:29.0	DLG	492673.0	5310681.9	Unknown	2197.115	6.1	244.759°	,, DIFFUSE,start recording 00
EVT	00/07/26	02:31:57.0	DLG	492673.5	5310681.9	Unknown	2197.092	6.3	244.891°	,it is 00G25118 elevator run,,
EVT	00/07/26	02:32:10.0	DLG	492673.5	5310681.9	Unknown	2197.112	6.1	244.544°	,stopped again by SM 2000,,
EVT	00/07/26	02:34:13.0	DLG	492673.3	5310682.3	Unknown	2197.070	6.2	244.635°	,restarting the computer,,
EVT	00/07/26	02:37:32.0	DLG	492674.0	5310681.8	Unknown	2197.246	6.1	245.088°	,, DIFFUSE,start recording 00G26118 elevator run

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	02:38:02.0	DLG	492672.6	5310681.7	Unknown	2197.250	5.9	245.083°	,going up ,,
EVT	00/07/26	02:39:59.0	DLG	492672.3	5310681.9	Unknown	2192.884	10.1	245.103°	,going up about 2.5 m/min,,
EVT	00/07/26	02:41:03.0	DLG	492673.4	5310682.1	Unknown	2190.256	12.9	245.018°	,going up at 2.3 m/min,,
EVT	00/07/26	02:43:18.0	DLG	492672.9	5310682.0	Unknown	2184.756	18.0	244.873°	,at 18m m,,
EVT	00/07/26	02:49:40.0	DLG	492673.2	5310681.9	Unknown	2169.275	20.5	244.949°	now about 30 m altitude,,
EVT	00/07/26	02:51:16.0	DLG	492672.3	5310682.7	Unknown	2166.543	30.0	243.320°	stopped going up at 32.4 m altitude,,
EVT	00/07/26	02:51:28.0	DLG	492673.0	5310682.4	Unknown	2166.556	30.0	243.790°	stop recording,,
EVT	00/07/26	02:52:53.0	DLG	492672.7	5310682.0	Unknown	2166.909	30.0	245.487°	Changing the jaz tape...11 in 10 out,,
EVT	00/07/26	02:55:07.0	DLG	492664.9	5310691.2	Unknown	2196.907	6.1	227.468°	VID_GRAB,,
EVT	00/07/26	02:55:15.0	DLG	492664.9	5310691.2	Unknown	2197.353	5.4	218.899°	VID_GRAB,,
EVT	00/07/26	02:55:38.0	DLG	492662.1	5310695.5	Unknown	2197.120	4.3	210.435°	VID_GRAB,,
EVT	00/07/26	02:55:41.0	DLG	492662.1	5310695.5	Unknown	2196.867	4.6	207.943°	VID_GRAB,,
EVT	00/07/26	02:55:47.0	DLG	492662.1	5310695.5	Unknown	2196.348	5.2	201.817°	VID_GRAB,,
EVT	00/07/26	02:55:54.0	DLG	492662.1	5310695.5	Unknown	2195.841	5.6	197.642°	VID_GRAB,,
EVT	00/07/26	02:55:58.0	DLG	492662.1	5310695.5	Unknown	2195.402	5.9	197.061°	VID_GRAB,,
EVT	00/07/26	02:56:05.0	DLG	492662.1	5310695.5	Unknown	2194.597	6.7	197.960°	VID_GRAB,,
EVT	00/07/26	02:56:26.0	DLG	492661.3	5310696.9	Unknown	2193.824	7.4	196.536°	VID_GRAB,, DIFFUSE,
EVT	00/07/26	02:57:19.0	DLG	492661.9	5310697.1	Unknown	2193.524	7.7	197.120°	VID_GRAB,,
EVT	00/07/26	02:57:31.0	DLG	492661.9	5310697.1	Unknown	2193.565	7.7	197.084°	, PLUME,,
EVT	00/07/26	02:57:35.0	DLG	492661.9	5310697.1	Unknown	2193.518	7.7	197.205°	VID_GRAB,, PLUME,
EVT	00/07/26	02:58:15.0	DLG	492661.9	5310697.1	Unknown	2193.451	7.8	207.301°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	02:59:41.0	DLG	492662.2	5310697.0	Unknown	2193.491	7.8	206.841°	Site-Lobo,Changing tapes done....,,
EVT	00/07/26	03:00:40.0	DLG	492661.3	5310697.0	Unknown	2193.386	7.8	206.488°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:03:39.0	DLG	492661.9	5310697.4	Unknown	2193.417	7.8	206.980°	Site-Lobo,VID_GRAB,, PLUME
EVT	00/07/26	03:04:57.0	DLG	492662.2	5310697.4	Unknown	2193.438	7.8	206.786°	Site-Lobo,VID_GRAB,, PLUME
EVT	00/07/26	03:05:05.0	DLG	492662.2	5310697.4	Unknown	2193.420	7.8	206.719°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:06:21.0	DLG	492661.4	5310696.8	Unknown	2193.787	7.3	205.765°	Site-Lobo,These smokers are on top of Lobo,,
EVT	00/07/26	03:06:24.0	DLG	492661.4	5310696.8	Unknown	2194.193	6.9	205.578°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:06:35.0	DLG	492661.4	5310696.8	Unknown	2195.431	4.9	198.054°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:06:44.0	DLG	492661.4	5310696.8	Unknown	2196.611	3.4	196.333°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:06:53.0	DLG	492661.4	5310696.8	Unknown	2197.763	2.0	196.636°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:07:01.0	DLG	492662.7	5310698.5	Unknown	2198.162	1.5	197.709°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:07:05.0	DLG	492662.7	5310698.5	Unknown	2198.511	1.4	197.017°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:07:09.0	DLG	492662.7	5310698.5	Unknown	2199.121	1.0	212.298°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:07:19.0	DLG	492662.7	5310698.5	Unknown	2198.868	1.4	245.866°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:07:33.0	DLG	492662.7	5310698.5	Unknown	2199.083	2.1	257.599°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:07:43.0	DLG	492664.7	5310698.8	Unknown	2199.749	2.2	265.237°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:08:07.0	DLG	492663.9	5310697.5	Unknown	2200.688	0.9	340.793°	Site-Lobo,VID_GRAB,,
EVT	00/07/26	03:08:18.0	DLG	492662.4	5310695.8	Unknown	2200.700	0.8	302.901°	Site-Lobo ,VID_GRAB,,
EVT	00/07/26	03:08:28.0	DLG	492662.4	5310695.8	Unknown	2200.715	1.4	282.064°	Site-Lobo ,VID_GRAB,,
EVT	00/07/26	03:08:32.0	DLG	492662.4	5310695.8	Unknown	2200.882	1.9	284.162°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:08:38.0	DLG	492663.1	5310696.2	Unknown	2201.115	1.7	263.577°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:08:43.0	DLG	492663.1	5310696.2	Unknown	2201.100	1.7	241.720°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:08:50.0	DLG	492663.1	5310696.2	Unknown	2201.108	2.1	224.869°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:09:27.0	DLG	492666.0	5310694.5	Unknown	2202.491	1.0	290.695°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	03:10:00.0	DLG	492668.1	5310692.7	Unknown	2202.351	1.0	200.243°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:10:23.0	DLG	492666.9	5310693.2	Unknown	2202.451	1.1	199.671°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:10:46.0	DLG	492668.1	5310693.5	Unknown	2203.066	0.7	250.887°	Site-Lobo ,Gyro reset
EVT	00/07/26	03:10:55.0	DLG	492668.1	5310693.5	Unknown	2202.837	0.8	266.942°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:11:00.0	DLG	492668.1	5310693.5	Unknown	2202.458	1.5	266.027°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:11:19.0	DLG	492668.0	5310695.7	Unknown	2201.365	1.6	265.507°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:11:22.0	DLG	492668.0	5310695.7	Unknown	2200.946	2.2	267.278°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:11:24.0	DLG	492668.0	5310695.7	Unknown	2200.540	2.6	277.423°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:11:27.0	DLG	492668.0	5310695.7	Unknown	2200.027	2.9	276.315°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:11:30.0	DLG	492668.0	5310695.7	Unknown	2199.760	3.2	281.098°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:11:45.0	DLG	492667.4	5310698.4	Unknown	2199.474	4.3	242.469°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:12:04.0	DLG	492669.4	5310701.5	Unknown	2200.406	2.7	183.129°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:12:17.0	DLG	492669.4	5310701.5	Unknown	2199.265	3.4	209.457°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:12:28.0	DLG	492665.9	5310704.2	Unknown	2198.962	3.5	208.017°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:12:37.0	DLG	492665.9	5310704.2	Unknown	2198.122	4.0	200.366°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:12:47.0	DLG	492664.5	5310705.1	Unknown	2197.633	4.3	197.699°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:12:56.0	DLG	492664.5	5310705.1	Unknown	2197.808	3.6	178.202°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:13:23.0	DLG	492662.0	5310708.4	Unknown	2197.908	2.9	128.242°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:13:51.0	DLG	492661.4	5310707.0	Unknown	2195.869	4.7	134.837°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:14:16.0	DLG	492657.1	5310707.4	Unknown	2195.629	4.5	137.378°	Site-Lobo ,we plan to go to Hulk and Crypto and see whats there,
EVT	00/07/26	03:14:20.0	DLG	492655.7	5310705.4	Unknown	2195.793	3.7	136.486°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:14:38.0	DLG	492656.3	5310704.5	Unknown	2195.606	2.9	136.454°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:14:41.0	DLG	492656.3	5310704.5	Unknown	2195.640	3.2	136.575°	Site-Lobo ,, DIFFUSE
EVT	00/07/26	03:14:44.0	DLG	492656.3	5310704.5	Unknown	2195.722	3.5	135.686°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:15:03.0	DLG	492656.3	5310704.5	Unknown	2195.270	3.7	136.972°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:15:10.0	DLG	492656.3	5310704.5	Unknown	2194.541	4.5	137.234°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:15:21.0	DLG	492657.2	5310705.1	Unknown	2193.949	6.1	130.016°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	03:15:27.0	DLG	492657.2	5310705.1	Unknown	2193.635	5.4	105.784°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:15:29.0	DLG	492657.2	5310705.1	Unknown	2193.555	4.6	100.440°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:15:31.0	DLG	492657.2	5310705.1	Unknown	2193.422	4.8	91.248°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:15:33.0	DLG	492657.2	5310705.1	Unknown	2193.402	5.2	82.606°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:15:36.0	DLG	492657.2	5310705.1	Unknown	2193.422	5.3	71.808°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:15:40.0	DLG	492655.9	5310701.5	Unknown	2193.242	5.6	62.107°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:15:44.0	DLG	492655.9	5310701.5	Unknown	2192.956	4.6	63.085°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:15:47.0	DLG	492655.9	5310701.5	Unknown	2192.769	5.5	64.021°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:15:52.0	DLG	492655.9	5310701.5	Unknown	2192.457	5.7	59.149°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:00.0	DLG	492653.1	5310701.3	Unknown	2192.836	3.2	59.741°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:04.0	DLG	492653.1	5310701.3	Unknown	2193.016	3.8	57.334°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:05.0	DLG	492653.1	5310701.3	Unknown	2193.109	3.7	56.869°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:06.0	DLG	492653.1	5310701.3	Unknown	2193.349	3.3	57.480°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:08.0	DLG	492653.1	5310701.3	Unknown	2193.383	3.3	58.311°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:09.0	DLG	492653.1	5310701.3	Unknown	2193.528	3.4	60.131°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:10.0	DLG	492653.1	5310701.3	Unknown	2193.635	4.5	58.940°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:12.0	DLG	492653.1	5310701.3	Unknown	2193.682	4.4	58.847°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:13.0	DLG	492653.1	5310701.3	Unknown	2193.788	2.9	58.931°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:15.0	DLG	492653.1	5310701.3	Unknown	2193.955	2.8	57.870°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	03:16:18.0	DLG	492654.0	5310698.3	Unknown	2194.008	2.7	58.522°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:20.0	DLG	492654.0	5310698.3	Unknown	2193.975	2.7	58.140°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:28.0	DLG	492654.0	5310698.3	Unknown	2193.489	3.2	57.964°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:30.0	DLG	492654.0	5310698.3	Unknown	2193.369	3.6	58.067°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:32.0	DLG	492654.0	5310698.3	Unknown	2193.356	4.7	56.983°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:34.0	DLG	492654.0	5310698.3	Unknown	2193.429	4.6	57.417°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:37.0	DLG	492654.0	5310698.3	Unknown	2193.662	3.3	56.443°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:16:40.0	DLG	492654.5	5310698.8	Unknown	2193.748	3.0	57.026°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:17:04.0	DLG	492653.9	5310698.6	Unknown	2192.104	7.0	70.488°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:17:22.0	DLG	492653.9	5310698.6	Unknown	2192.163	7.8	99.374°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:17:34.0	DLG	492653.9	5310698.6	Unknown	2192.816	7.4	96.810°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:17:49.0	DLG	492653.9	5310698.6	Unknown	2193.616	6.9	94.281°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:17:50.0	DLG	492653.9	5310698.6	Unknown	2193.509	6.8	93.024°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:17:53.0	DLG	492653.9	5310698.6	Unknown	2193.323	7.2	93.544°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:17:55.0	DLG	492653.9	5310698.6	Unknown	2193.036	7.2	93.098°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:18:01.0	DLG	492657.5	5310704.1	Unknown	2193.389	6.9	91.211°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:18:09.0	DLG	492657.5	5310704.1	Unknown	2194.115	6.2	93.056°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:18:12.0	DLG	492657.5	5310704.1	Unknown	2194.161	6.1	93.682°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:18:17.0	DLG	492657.2	5310703.6	Unknown	2194.135	6.0	92.173°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:18:43.0	DLG	492657.2	5310703.6	Unknown	2194.141	6.2	93.592°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:19:20.0	DLG	492655.1	5310702.2	Unknown	2193.642	3.7	95.609°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:19:24.0	DLG	492655.1	5310702.2	Unknown	2193.732	3.3	94.344°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:19:32.0	DLG	492655.1	5310702.2	Unknown	2193.822	1.6	95.176°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:22:09.0	DLG	492648.3	5310693.2	Unknown	2193.522	5.3	109.467°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:22:51.0	DLG	492647.4	5310693.0	Unknown	2193.064	5.6	106.595°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:23:24.0	DLG	492648.4	5310693.3	Unknown	2193.005	5.7	105.925°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:23:45.0	DLG	492648.3	5310693.5	Unknown	2193.071	5.7	106.211°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:24:00.0	DLG	492648.2	5310693.1	Unknown	2193.208	5.8	100.782°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:24:14.0	DLG	492648.2	5310693.1	Unknown	2193.511	5.7	101.467°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:24:23.0	DLG	492647.2	5310694.6	Unknown	2193.427	5.6	100.976°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:24:55.0	DLG	492647.1	5310694.7	Unknown	2193.370	5.6	86.290°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:25:10.0	DLG	492644.9	5310694.7	Unknown	2193.603	5.3	85.892°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:25:14.0	DLG	492644.9	5310694.7	Unknown	2193.609	5.3	85.507°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:25:20.0	DLG	492644.9	5310694.7	Unknown	2193.748	5.1	85.841°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:25:23.0	DLG	492644.9	5310694.7	Unknown	2193.762	5.1	85.261°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:25:31.0	DLG	492644.9	5310694.7	Unknown	2193.689	5.3	86.577°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:25:42.0	DLG	492648.6	5310691.4	Unknown	2193.676	5.1	85.664°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:26:00.0	DLG	492647.4	5310691.0	Unknown	2193.589	5.3	85.742°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:26:20.0	DLG	492648.1	5310692.0	Unknown	2193.622	5.0	85.374°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:27:07.0	DLG	492648.5	5310691.7	Unknown	2193.505	5.5	85.892°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:29.0	DLG	492646.9	5310694.7	Unknown	2193.387	5.2	70.930°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:36.0	DLG	492646.9	5310694.7	Unknown	2194.007	2.6	72.291°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:42.0	DLG	492649.1	5310693.8	Unknown	2194.167	2.0	73.504°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:45.0	DLG	492649.1	5310693.8	Unknown	2194.069	2.1	73.604°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:48.0	DLG	492649.1	5310693.8	Unknown	2193.967	2.2	74.102°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:51.0	DLG	492649.1	5310693.8	Unknown	2194.026	2.1	74.926°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:53.0	DLG	492649.1	5310693.8	Unknown	2194.049	2.0	75.932°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	03:28:54.0	DLG	492649.1	5310693.8	Unknown	2194.195	2.0	76.037°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:56.0	DLG	492649.1	5310693.8	Unknown	2194.088	2.0	75.528°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:28:57.0	DLG	492649.1	5310693.8	Unknown	2194.108	2.1	76.137°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:00.0	DLG	492649.1	5310693.8	Unknown	2193.960	2.2	75.757°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:02.0	DLG	492649.1	5310693.8	Unknown	2194.053	2.2	75.421°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:04.0	DLG	492649.1	5310693.8	Unknown	2194.073	2.1	75.482°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:06.0	DLG	492649.1	5310693.8	Unknown	2194.133	2.1	75.826°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:09.0	DLG	492649.1	5310693.8	Unknown	2194.056	2.2	76.257°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:11.0	DLG	492649.1	5310693.8	Unknown	2193.995	2.2	76.142°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:12.0	DLG	492649.1	5310693.8	Unknown	2193.975	2.2	75.368°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:16.0	DLG	492649.1	5310693.8	Unknown	2194.142	2.0	74.654°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:17.0	DLG	492652.3	5310693.4	Unknown	2194.142	2.1	75.023°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:19.0	DLG	492652.3	5310693.4	Unknown	2194.202	2.2	75.281°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:21.0	DLG	492652.3	5310693.4	Unknown	2194.142	2.1	75.450°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:28.0	DLG	492652.3	5310693.4	Unknown	2194.150	2.2	76.725°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:31.0	DLG	492652.3	5310693.4	Unknown	2194.155	2.2	74.805°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:36.0	DLG	492652.3	5310693.4	Unknown	2194.178	2.0	75.163°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:38.0	DLG	492652.2	5310693.0	Unknown	2194.171	1.9	74.279°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:39.0	DLG	492652.2	5310693.0	Unknown	2194.282	1.9	74.561°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:44.0	DLG	492652.2	5310693.0	Unknown	2194.164	2.1	75.644°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:46.0	DLG	492652.2	5310693.0	Unknown	2194.148	2.1	76.407°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:52.0	DLG	492652.2	5310693.0	Unknown	2194.244	2.0	75.445°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:54.0	DLG	492652.2	5310693.0	Unknown	2194.284	2.0	75.505°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:29:56.0	DLG	492652.2	5310693.0	Unknown	2194.088	2.1	76.004°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:02.0	DLG	492652.5	5310693.2	Unknown	2194.093	2.0	75.151°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:04.0	DLG	492652.5	5310693.2	Unknown	2194.157	2.0	75.715°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:07.0	DLG	492652.5	5310693.2	Unknown	2194.044	2.1	76.148°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:09.0	DLG	492652.5	5310693.2	Unknown	2193.999	2.2	75.284°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:14.0	DLG	492652.5	5310693.2	Unknown	2193.991	2.3	75.753°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:17.0	DLG	492651.4	5310693.1	Unknown	2194.125	2.0	75.721°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:23.0	DLG	492651.4	5310693.1	Unknown	2194.037	2.2	76.977°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:30.0	DLG	492651.4	5310693.1	Unknown	2193.964	2.5	87.680°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:37.0	DLG	492651.2	5310693.6	Unknown	2193.880	3.2	87.700°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:52.0	DLG	492651.2	5310693.6	Unknown	2193.887	3.4	88.798°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:30:55.0	DLG	492651.2	5310693.6	Unknown	2193.787	3.4	88.350°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:31:10.0	DLG	492652.0	5310693.8	Unknown	2194.080	4.0	89.139°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:31:13.0	DLG	492652.0	5310693.8	Unknown	2194.034	4.0	88.736°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:31:24.0	DLG	492652.0	5310693.8	Unknown	2193.653	4.3	88.284°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:31:44.0	DLG	492650.9	5310694.9	Unknown	2193.847	4.1	88.508°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:32:01.0	DLG	492651.4	5310694.7	Unknown	2194.362	2.7	89.622°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:32:07.0	DLG	492651.4	5310694.7	Unknown	2194.268	2.1	88.990°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:32:09.0	DLG	492651.4	5310694.7	Unknown	2194.268	2.1	89.817°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:32:13.0	DLG	492651.4	5310694.7	Unknown	2194.247	1.9	88.970°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:32:25.0	DLG	492651.9	5310694.1	Unknown	2194.149	2.0	90.406°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:32:33.0	DLG	492651.9	5310694.1	Unknown	2194.009	2.6	88.164°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:32:43.0	DLG	492652.5	5310694.0	Unknown	2194.103	2.9	87.583°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:32:47.0	DLG	492652.5	5310694.0	Unknown	2194.112	2.4	76.454°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	03:32:50.0	DLG	492652.5	5310694.0	Unknown	2193.996	2.3	63.853°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:33:18.0	DLG	492651.9	5310692.7	Unknown	2194.191	3.3	46.368°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:33:22.0	DLG	492651.9	5310692.7	Unknown	2193.978	4.2	46.137°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:34:14.0	DLG	492645.3	5310698.0	Unknown	2191.981	6.6	73.663°	Site-Lobo ,We took off the time code on the videos a while ago
EVT	00/07/26	03:34:19.0	DLG	492653.2	5310699.3	Unknown	2191.774	7.3	70.571°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:34:31.0	DLG	492653.2	5310699.3	Unknown	2191.777	7.5	94.399°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:34:42.0	DLG	492654.7	5310702.4	Unknown	2192.083	7.0	83.752°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:34:51.0	DLG	492654.7	5310702.4	Unknown	2193.202	6.7	118.111°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:34:56.0	DLG	492654.7	5310702.4	Unknown	2193.576	6.4	122.886°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:35:15.0	DLG	492657.0	5310704.4	Unknown	2193.990	6.0	112.040°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:35:21.0	DLG	492658.8	5310703.8	Unknown	2194.042	5.2	108.484°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:35:34.0	DLG	492658.8	5310703.8	Unknown	2194.196	5.9	109.633°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:35:50.0	DLG	492657.6	5310704.1	Unknown	2193.783	5.5	111.593°	Site-Lobo ,gyro reset ...2 degrees off
EVT	00/07/26	03:36:00.0	DLG	492658.5	5310703.1	Unknown	2193.936	5.2	123.406°	Site-Lobo ,facing E-SE
EVT	00/07/26	03:36:11.0	DLG	492658.5	5310703.1	Unknown	2193.580	5.2	126.273°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:36:15.0	DLG	492658.5	5310703.1	Unknown	2193.223	5.5	125.470°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:36:19.0	DLG	492659.2	5310703.1	Unknown	2192.727	5.9	125.501°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:36:23.0	DLG	492659.2	5310703.1	Unknown	2192.201	6.1	125.863°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:36:28.0	DLG	492659.2	5310703.1	Unknown	2191.594	7.0	124.882°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:36:45.0	DLG	492659.3	5310703.0	Unknown	2191.628	8.5	128.170°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:09.0	DLG	492659.4	5310704.0	Unknown	2191.888	3.9	126.427°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:12.0	DLG	492659.4	5310704.0	Unknown	2192.201	5.8	126.726°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:18.0	DLG	492659.5	5310703.2	Unknown	2192.820	5.3	127.652°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:21.0	DLG	492659.5	5310703.2	Unknown	2192.913	5.0	128.062°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:23.0	DLG	492659.5	5310703.2	Unknown	2193.113	4.9	126.583°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:26.0	DLG	492659.5	5310703.2	Unknown	2193.306	4.8	127.189°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:31.0	DLG	492659.5	5310703.2	Unknown	2193.878	4.9	128.228°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:35.0	DLG	492659.5	5310703.2	Unknown	2193.961	5.2	129.228°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:41.0	DLG	492658.8	5310703.5	Unknown	2194.200	5.1	127.801°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:51.0	DLG	492658.8	5310703.5	Unknown	2194.300	4.7	128.695°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:37:58.0	DLG	492659.0	5310703.6	Unknown	2194.300	4.9	124.037°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:38:14.0	DLG	492659.0	5310703.6	Unknown	2193.994	5.2	99.577°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:38:23.0	DLG	492657.4	5310704.7	Unknown	2194.227	5.3	110.405°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:38:58.0	DLG	492661.2	5310703.8	Unknown	2194.129	4.4	187.402°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:39:13.0	DLG	492661.2	5310703.8	Unknown	2193.983	3.4	184.389°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:39:28.0	DLG	492660.6	5310703.3	Unknown	2193.504	4.2	184.849°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:39:39.0	DLG	492659.9	5310703.8	Unknown	2192.658	4.8	180.400°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:39:52.0	DLG	492659.9	5310703.8	Unknown	2192.425	4.9	164.079°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:40:03.0	DLG	492659.9	5310703.4	Unknown	2192.552	5.2	151.587°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:40:14.0	DLG	492659.9	5310703.4	Unknown	2193.193	6.8	162.980°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:41:02.0	DLG	492663.5	5310702.6	Unknown	2187.887	13.8	120.843°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:41:13.0	DLG	492663.5	5310702.6	Unknown	2187.141	8.2	118.175°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:42:44.0	DLG	492687.9	5310710.8	Unknown	2181.921	18.4	21.593°	Site-Lobo ,Now moving NE to Hulk and Crypto...
EVT	00/07/26	03:42:54.0	DLG	492687.9	5310710.8	Unknown	2184.351	4.7	23.495°	Site-Lobo ,Lets go buddy!!!!!!!!!!!!
EVT	00/07/26	03:44:30.0	DLG	492710.5	5310727.4	Unknown	2199.105	2.4	321.243°	Site-Lobo ,fissure

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	03:44:32.0	DLG	492710.5	5310727.4	Unknown	2199.285	2.5	322.005°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:44:35.0	DLG	492710.5	5310727.4	Unknown	2199.287	2.2	322.479°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:45:03.0	DLG	492713.9	5310740.3	Unknown	2199.666	1.9	299.147°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:45:14.0	DLG	492713.9	5310740.3	Unknown	2200.952	1.1	309.288°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:45:26.0	DLG	492713.9	5310740.3	Unknown	2200.732	0.8	308.747°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:45:51.0	DLG	492710.0	5310759.9	Unknown	2200.415	1.4	310.043°	Site-Lobo ,gyro reset
EVT	00/07/26	03:46:09.0	DLG	492711.8	5310764.0	Unknown	2199.475	1.9	308.957°	Site-Lobo ,upslope slightly
EVT	00/07/26	03:46:21.0	DLG	492712.6	5310768.7	Unknown	2199.036	2.3	308.151°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:46:47.0	DLG	492711.4	5310773.0	Unknown	2199.762	1.8	308.973°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:47:11.0	DLG	492712.7	5310774.2	Unknown	2200.068	1.6	309.077°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:48:05.0	DLG	492710.9	5310775.4	Unknown	2200.577	1.0	77.540°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:48:20.0	DLG	492717.9	5310768.8	Unknown	2200.894	1.3	102.853°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:48:37.0	DLG	492717.2	5310768.5	Unknown	2200.448	1.7	131.935°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:48:41.0	DLG	492717.2	5310768.5	Unknown	2200.530	1.4	136.165°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:48:48.0	DLG	492717.2	5310768.5	Unknown	2200.411	1.2	132.804°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:48:55.0	DLG	492717.2	5310768.5	Unknown	2200.517	1.2	130.957°	Site-Lobo ,Sheet flow
EVT	00/07/26	03:48:59.0	DLG	492719.7	5310761.8	Unknown	2200.711	1.0	123.519°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:49:22.0	DLG	492718.9	5310757.0	Unknown	2200.463	1.8	129.031°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:49:32.0	DLG	492718.9	5310757.0	Unknown	2201.023	1.1	143.614°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:49:35.0	DLG	492718.9	5310757.0	Unknown	2201.230	1.0	151.293°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:50:43.0	DLG	492722.5	5310745.7	Unknown	2200.060	1.8	42.344°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:50:45.0	DLG	492722.5	5310745.7	Unknown	2200.133	1.7	31.090°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:50:47.0	DLG	492722.5	5310745.7	Unknown	2200.247	1.8	25.435°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:50:51.0	DLG	492722.5	5310745.7	Unknown	2200.300	1.9	19.600°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:50:57.0	DLG	492722.5	5310745.7	Unknown	2200.260	2.4	21.342°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:00.0	DLG	492731.4	5310747.5	Unknown	2200.247	1.7	12.102°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:04.0	DLG	492731.4	5310747.5	Unknown	2200.159	1.7	13.717°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:08.0	DLG	492731.4	5310747.5	Unknown	2200.040	2.1	7.179°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:12.0	DLG	492731.4	5310747.5	Unknown	2199.907	4.7	345.569°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:16.0	DLG	492731.4	5310747.5	Unknown	2199.953	10.6	346.063°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:20.0	DLG	492739.9	5310752.4	Unknown	2200.033	10.2	347.061°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:25.0	DLG	492739.9	5310752.4	Unknown	2200.859	9.2	353.922°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:30.0	DLG	492739.9	5310752.4	Unknown	2201.179	3.4	350.985°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:33.0	DLG	492739.9	5310752.4	Unknown	2201.062	1.8	347.505°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:40.0	DLG	492747.6	5310759.7	Unknown	2200.806	2.3	344.759°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:48.0	DLG	492747.6	5310759.7	Unknown	2200.639	3.1	318.808°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:51.0	DLG	492747.6	5310759.7	Unknown	2200.999	3.0	327.937°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:51:58.0	DLG	492747.6	5310759.7	Unknown	2201.832	2.7	323.808°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:07.0	DLG	492747.6	5310759.7	Unknown	2201.801	2.5	289.810°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:27.0	DLG	492747.6	5310759.7	Unknown	2201.920	4.8	283.401°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:32.0	DLG	492747.6	5310759.7	Unknown	2201.881	6.2	263.478°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:36.0	DLG	492747.6	5310759.7	Unknown	2201.188	6.8	238.812°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:42.0	DLG	492744.9	5310789.0	Unknown	2200.821	1.8	237.478°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:44.0	DLG	492744.9	5310789.0	Unknown	2200.715	1.6	235.470°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:48.0	DLG	492744.9	5310789.0	Unknown	2200.509	1.4	235.107°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:56.0	DLG	492744.9	5310789.0	Unknown	2200.009	1.8	233.589°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:52:59.0	DLG	492734.8	5310785.4	Unknown	2199.935	1.4	232.283°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	03:53:02.0	DLG	492734.8	5310785.4	Unknown	2199.815	1.7	225.550°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:53:25.0	DLG	492733.7	5310787.6	Unknown	2200.282	1.9	204.738°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:53:35.0	DLG	492733.7	5310787.6	Unknown	2200.275	1.7	203.611°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:53:42.0	DLG	492723.6	5310790.8	Unknown	2200.125	1.5	181.748°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:53:46.0	DLG	492723.6	5310790.8	Unknown	2200.131	1.5	175.056°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:53:55.0	DLG	492723.6	5310790.8	Unknown	2200.238	1.2	174.260°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:54:05.0	DLG	492720.8	5310780.9	Unknown	2200.491	1.5	132.019°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:54:23.0	DLG	492717.5	5310773.9	Unknown	2201.083	1.0	55.675°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:54:27.0	DLG	492717.5	5310773.9	Unknown	2201.144	1.2	64.915°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:54:34.0	DLG	492717.5	5310773.9	Unknown	2200.913	1.6	42.395°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:54:41.0	DLG	492720.6	5310769.4	Unknown	2201.630	1.0	38.636°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:54:48.0	DLG	492720.6	5310769.4	Unknown	2201.810	1.3	40.067°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:54:58.0	DLG	492720.6	5310769.4	Unknown	2201.692	1.2	71.282°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:55:16.0	DLG	492724.9	5310769.4	Unknown	2201.999	0.9	117.524°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:55:21.0	DLG	492722.6	5310772.4	Unknown	2202.092	1.3	115.619°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:55:27.0	DLG	492722.6	5310772.4	Unknown	2202.038	1.4	117.138°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:55:45.0	DLG	492723.5	5310771.4	Unknown	2202.151	0.7	119.830°	Site-Lobo ,fissure with diffuse flow
EVT	00/07/26	03:55:59.0	DLG	492723.5	5310771.4	Unknown	2201.999	1.6	110.163°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:56:09.0	DLG	492723.5	5310771.4	Unknown	2202.258	1.7	112.308°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:56:42.0	DLG	492723.7	5310771.4	Unknown	2201.059	1.5	58.376°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:04.0	DLG	492724.6	5310767.6	Unknown	2200.793	1.4	273.026°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:10.0	DLG	492724.6	5310767.6	Unknown	2200.813	1.4	267.667°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:14.0	DLG	492724.6	5310767.6	Unknown	2200.893	1.3	262.515°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:19.0	DLG	492727.0	5310766.8	Unknown	2201.146	1.1	264.279°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:24.0	DLG	492727.0	5310766.8	Unknown	2201.352	0.8	263.957°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:32.0	DLG	492727.0	5310766.8	Unknown	2201.586	0.7	264.745°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:40.0	DLG	492727.0	5310766.8	Unknown	2201.679	1.0	263.953°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:48.0	DLG	492727.0	5310766.8	Unknown	2201.732	1.2	263.006°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:51.0	DLG	492727.0	5310766.8	Unknown	2201.772	1.2	262.228°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:52.0	DLG	492727.0	5310766.8	Unknown	2201.745	1.2	261.894°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:53.0	DLG	492727.0	5310766.8	Unknown	2201.745	1.2	261.868°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:57:56.0	DLG	492727.0	5310766.8	Unknown	2201.772	1.2	262.301°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:58:30.0	DLG	492726.0	5310767.1	Unknown	2201.266	1.0	264.811°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:59:17.0	DLG	492725.9	5310765.6	Unknown	2200.195	2.3	310.879°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:59:20.0	DLG	492727.7	5310768.0	Unknown	2199.974	2.5	339.937°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:59:22.0	DLG	492727.7	5310768.0	Unknown	2200.014	2.7	354.938°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:59:25.0	DLG	492727.7	5310768.0	Unknown	2200.002	2.3	7.171°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:59:33.0	DLG	492727.7	5310768.0	Unknown	2200.247	2.2	18.879°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:59:38.0	DLG	492727.7	5310768.0	Unknown	2200.156	2.2	37.410°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:59:41.0	DLG	492727.7	5310768.0	Unknown	2200.103	2.3	54.581°	Site-Lobo ,VID_GRAB
EVT	00/07/26	03:59:54.0	DLG	492727.7	5310768.0	Unknown	2200.849	1.7	66.715°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:03.0	DLG	492727.7	5310768.0	Unknown	2202.100	3.4	59.856°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:04.0	DLG	492727.7	5310768.0	Unknown	2202.221	5.6	59.192°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:06.0	DLG	492727.7	5310768.0	Unknown	2202.414	5.9	59.692°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:08.0	DLG	492727.7	5310768.0	Unknown	2202.394	5.7	60.168°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:11.0	DLG	492727.7	5310768.0	Unknown	2202.440	2.1	61.523°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:14.0	DLG	492727.7	5310768.0	Unknown	2202.467	1.4	71.489°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	04:00:16.0	DLG	492727.7	5310768.0	Unknown	2202.421	1.7	75.394°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:20.0	DLG	492747.6	5310769.1	Unknown	2202.553	1.9	78.503°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:22.0	DLG	492747.6	5310769.1	Unknown	2202.401	1.8	74.455°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:25.0	DLG	492747.6	5310769.1	Unknown	2202.320	1.9	96.834°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:28.0	DLG	492747.6	5310769.1	Unknown	2202.217	1.7	98.780°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:35.0	DLG	492747.6	5310769.1	Unknown	2201.867	2.0	98.056°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:39.0	DLG	492747.6	5310769.1	Unknown	2201.741	2.3	97.892°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:48.0	DLG	492747.6	5310769.1	Unknown	2200.931	3.2	95.973°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:00:59.0	DLG	492747.6	5310769.1	Unknown	2201.068	3.2	88.975°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:01:28.0	DLG	492747.6	5310769.1	Unknown	2200.103	3.7	64.477°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:01:42.0	DLG	492749.8	5310768.7	Unknown	2199.477	4.6	82.230°	Site-Lobo ,Smokey current from SE to NW
EVT	00/07/26	04:03:37.0	DLG	492753.6	5310768.1	Unknown	2198.631	5.3	142.922°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:04:00.0	DLG	492747.9	5310766.9	Unknown	2200.622	3.9	149.115°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:04:08.0	DLG	492747.9	5310766.9	Unknown	2201.115	4.7	151.048°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:04:27.0	DLG	492741.2	5310767.9	Unknown	2202.867	7.8	111.022°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:05:05.0	DLG	492741.2	5310767.9	Unknown	2203.364	6.5	61.114°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:05:19.0	DLG	492741.2	5310767.9	Unknown	2202.951	5.9	347.222°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:05:42.0	DLG	492741.2	5310767.9	Unknown	2201.958	7.5	326.105°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:05:52.0	DLG	492741.2	5310767.9	Unknown	2201.766	8.4	330.028°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:06:00.0	DLG	492741.2	5310767.9	Unknown	2201.472	5.5	327.435°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:06:06.0	DLG	492741.2	5310767.9	Unknown	2200.913	4.8	333.391°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:06:13.0	DLG	492741.2	5310767.9	Unknown	2200.640	2.5	333.504°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:06:32.0	DLG	492741.2	5310767.9	Unknown	2201.332	2.8	356.165°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:06:39.0	DLG	492741.2	5310767.9	Unknown	2203.070	1.6	15.171°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:06:45.0	DLG	492741.2	5310767.9	Unknown	2203.671	1.2	14.672°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:06:51.0	DLG	492741.2	5310767.9	Unknown	2203.930	1.0	14.653°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:06:55.0	DLG	492741.2	5310767.9	Unknown	2204.117	0.8	16.727°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:07:04.0	DLG	492741.2	5310767.9	Unknown	2203.558	0.9	19.712°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:07:23.0	DLG	492741.2	5310767.9	Unknown	2202.165	2.2	67.115°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:07:45.0	DLG	492741.2	5310767.9	Unknown	2203.895	1.7	41.252°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:09:31.0	DLG	492741.2	5310767.9	Unknown	2204.122	0.7	48.649°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:09:37.0	DLG	492741.2	5310767.9	Unknown	2204.101	0.7	48.608°	Site-Lobo ,, DIFFUSE
EVT	00/07/26	04:12:30.0	DLG	492748.3	5310778.7	Unknown	2203.821	1.0	40.592°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:12:34.0	DLG	492748.3	5310778.7	Unknown	2203.789	0.9	31.045°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:12:38.0	DLG	492748.3	5310778.7	Unknown	2203.477	1.0	30.769°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:13:07.0	DLG	492748.3	5310778.7	Unknown	2204.556	2.3	46.260°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:13:20.0	DLG	492765.9	5310772.3	Unknown	2204.463	2.6	60.523°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:13:24.0	DLG	492765.9	5310772.3	Unknown	2204.436	2.2	74.443°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:13:30.0	DLG	492765.9	5310772.3	Unknown	2204.776	1.7	74.886°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:13:35.0	DLG	492765.9	5310772.3	Unknown	2204.870	1.8	75.443°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:13:46.0	DLG	492767.3	5310773.3	Unknown	2204.614	1.7	78.463°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:14:38.0	DLG	492770.4	5310776.3	Unknown	2203.957	3.4	127.171°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:15:01.0	DLG	492769.6	5310774.9	Unknown	2204.297	3.2	158.962°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:15:15.0	DLG	492769.6	5310774.9	Unknown	2204.537	2.7	150.461°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:15:31.0	DLG	492769.6	5310774.9	Unknown	2204.630	2.1	117.168°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:15:41.0	DLG	492765.5	5310777.5	Unknown	2204.983	2.7	106.854°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:15:46.0	DLG	492765.5	5310777.5	Unknown	2205.043	1.8	106.443°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	04:15:57.0	DLG	492765.5	5310777.5	Unknown	2205.036	1.9	116.604°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:16:04.0	DLG	492765.5	5310777.5	Unknown	2204.697	1.9	122.166°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:16:10.0	DLG	492765.5	5310777.5	Unknown	2204.350	1.9	123.378°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:16:15.0	DLG	492765.5	5310777.5	Unknown	2204.077	2.3	119.540°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:16:18.0	DLG	492765.5	5310777.5	Unknown	2204.022	2.3	112.808°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:16:23.0	DLG	492761.8	5310772.2	Unknown	2203.943	2.2	101.169°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:16:31.0	DLG	492761.8	5310772.2	Unknown	2203.770	2.0	80.291°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:16:39.0	DLG	492761.8	5310772.2	Unknown	2203.630	1.9	64.930°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:16:56.0	DLG	492761.8	5310772.2	Unknown	2202.745	2.1	74.306°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:17:05.0	DLG	492761.8	5310772.2	Unknown	2203.464	1.4	68.433°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:17:12.0	DLG	492761.8	5310772.2	Unknown	2204.355	0.9	68.060°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:17:31.0	DLG	492761.8	5310772.2	Unknown	2203.637	1.6	74.727°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:17:36.0	DLG	492761.8	5310772.2	Unknown	2203.205	2.0	95.716°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:18:07.0	DLG	492754.0	5310774.1	Unknown	2200.944	2.4	103.731°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:18:13.0	DLG	492754.0	5310774.1	Unknown	2200.304	3.7	123.378°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:18:28.0	DLG	492754.0	5310774.1	Unknown	2200.012	4.8	89.409°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:18:46.0	DLG	492754.0	5310774.1	Unknown	2200.071	4.2	93.375°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:18:55.0	DLG	492754.0	5310774.1	Unknown	2199.732	4.7	100.643°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:19:02.0	DLG	492763.0	5310766.7	Unknown	2199.169	5.2	100.972°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:19:08.0	DLG	492763.0	5310766.7	Unknown	2198.579	5.0	102.403°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:19:17.0	DLG	492763.0	5310766.7	Unknown	2197.718	5.8	101.608°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:19:20.0	DLG	492763.4	5310764.0	Unknown	2197.467	5.5	100.345°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:19:24.0	DLG	492763.4	5310764.0	Unknown	2197.400	6.0	100.048°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:19:51.0	DLG	492764.6	5310763.6	Unknown	2200.939	1.9	115.435°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:19:57.0	DLG	492762.8	5310769.7	Unknown	2200.462	4.9	122.162°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:20:06.0	DLG	492762.8	5310769.7	Unknown	2200.089	5.9	110.910°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:20:16.0	DLG	492762.8	5310769.7	Unknown	2199.428	6.9	98.176°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:20:21.0	DLG	492764.7	5310767.8	Unknown	2199.702	7.0	100.448°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:20:36.0	DLG	492764.7	5310767.8	Unknown	2200.752	6.0	120.023°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:21:13.0	DLG	492767.7	5310773.8	Unknown	2200.513	4.4	176.072°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:21:17.0	DLG	492767.7	5310773.8	Unknown	2200.566	5.9	180.983°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:21:33.0	DLG	492770.0	5310769.7	Unknown	2200.660	6.8	194.252°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:21:59.0	DLG	492771.6	5310767.0	Unknown	2201.092	1.7	219.900°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:22:08.0	DLG	492771.6	5310767.0	Unknown	2201.431	8.3	226.861°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:22:26.0	DLG	492768.0	5310765.9	Unknown	2201.976	6.5	244.099°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:22:39.0	DLG	492768.6	5310765.6	Unknown	2202.275	4.1	244.611°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:22:56.0	DLG	492768.6	5310765.6	Unknown	2202.371	6.4	245.614°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:13.0	DLG	492767.2	5310766.0	Unknown	2201.583	7.0	244.463°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:17.0	DLG	492767.2	5310766.0	Unknown	2201.916	7.6	241.222°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:18.0	DLG	492770.9	5310762.1	Unknown	2201.916	10.1	240.802°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:21.0	DLG	492770.9	5310762.1	Unknown	2202.669	9.6	238.265°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:22.0	DLG	492770.9	5310762.1	Unknown	2202.869	9.7	228.329°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:24.0	DLG	492770.9	5310762.1	Unknown	2203.261	8.9	211.448°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:27.0	DLG	492770.9	5310762.1	Unknown	2203.321	8.4	203.904°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:35.0	DLG	492770.9	5310762.1	Unknown	2203.279	6.6	196.651°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:23:45.0	DLG	492771.4	5310761.2	Unknown	2203.314	4.5	203.695°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:24:03.0	DLG	492768.8	5310759.6	Unknown	2203.172	0.0	204.694°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	04:24:08.0	DLG	492768.8	5310759.6	Unknown	2202.767	8.2	206.920°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:24:14.0	DLG	492768.8	5310759.6	Unknown	2202.335	9.5	207.058°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:24:30.0	DLG	492769.8	5310758.3	Unknown	2203.619	8.2	207.559°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:24:44.0	DLG	492772.2	5310757.3	Unknown	2205.464	6.6	208.307°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:24:47.0	DLG	492772.2	5310757.3	Unknown	2205.864	6.6	208.252°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:24:52.0	DLG	492772.2	5310757.3	Unknown	2206.071	6.2	214.016°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:24:56.0	DLG	492772.2	5310757.3	Unknown	2206.071	6.3	234.263°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:25:01.0	DLG	492771.3	5310760.3	Unknown	2205.984	6.2	234.621°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:25:14.0	DLG	492771.3	5310760.3	Unknown	2205.738	6.8	237.154°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:25:20.0	DLG	492770.3	5310762.0	Unknown	2205.591	6.5	236.456°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:25:28.0	DLG	492770.3	5310762.0	Unknown	2206.277	5.8	237.486°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:25:47.0	DLG	492771.6	5310763.6	Unknown	2206.790	5.5	212.314°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:25:57.0	DLG	492772.6	5310762.9	Unknown	2206.976	5.3	199.119°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:26:12.0	DLG	492772.6	5310762.9	Unknown	2207.263	5.7	219.971°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:26:36.0	DLG	492770.5	5310763.0	Unknown	2209.627	3.2	215.064°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:27:44.0	DLG	492773.6	5310762.4	Unknown	2207.183	5.1	200.311°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:28:01.0	DLG	492770.1	5310759.9	Unknown	2206.594	3.6	156.710°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:28:06.0	DLG	492770.1	5310759.9	Unknown	2206.996	3.2	136.700°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:28:36.0	DLG	492765.1	5310765.7	Unknown	2206.128	5.9	171.809°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:28:59.0	DLG	492771.2	5310753.4	Unknown	2205.904	6.4	177.322°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:29:13.0	DLG	492771.2	5310753.4	Unknown	2205.635	6.0	185.013°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:29:29.0	DLG	492770.6	5310751.2	Unknown	2205.518	6.7	190.195°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:29:51.0	DLG	492769.6	5310748.1	Unknown	2205.276	8.2	224.912°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:30:03.0	DLG	492768.0	5310745.8	Unknown	2205.118	8.1	239.685°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:30:13.0	DLG	492768.0	5310745.8	Unknown	2204.671	6.7	253.979°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:30:25.0	DLG	492766.5	5310744.6	Unknown	2204.885	3.5	250.515°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:30:42.0	DLG	492764.9	5310744.3	Unknown	2204.158	6.7	249.476°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:20.0	DLG	492761.8	5310743.3	Unknown	2205.357	3.1	244.307°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:23.0	DLG	492761.8	5310743.3	Unknown	2205.485	1.8	234.542°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:28.0	DLG	492761.8	5310743.3	Unknown	2205.744	1.5	231.211°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:33.0	DLG	492761.8	5310743.3	Unknown	2205.804	1.5	231.437°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:41.0	DLG	492760.3	5310743.8	Unknown	2205.697	2.1	228.447°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:45.0	DLG	492760.3	5310743.8	Unknown	2205.578	2.9	228.193°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:46.0	DLG	492760.3	5310743.8	Unknown	2205.431	3.0	228.891°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:48.0	DLG	492760.3	5310743.8	Unknown	2205.417	3.0	228.161°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:51.0	DLG	492760.3	5310743.8	Unknown	2205.431	3.0	229.273°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:31:55.0	DLG	492760.3	5310743.8	Unknown	2205.311	3.1	232.248°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:32:34.0	DLG	492760.8	5310739.4	Unknown	2203.846	3.7	245.512°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:32:51.0	DLG	492758.1	5310739.6	Unknown	2204.372	1.8	273.410°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:14.0	DLG	492757.2	5310741.1	Unknown	2203.966	1.7	247.764°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:22.0	DLG	492755.4	5310742.3	Unknown	2203.652	2.4	236.115°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:26.0	DLG	492755.4	5310742.3	Unknown	2203.598	2.3	225.381°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:29.0	DLG	492755.4	5310742.3	Unknown	2203.619	2.1	225.461°	Site-Lobo ,, DIFFUSE
EVT	00/07/26	04:33:30.0	DLG	492755.4	5310742.3	Unknown	2203.666	2.0	222.908°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:32.0	DLG	492755.4	5310742.3	Unknown	2203.566	2.0	218.508°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:33.0	DLG	492755.4	5310742.3	Unknown	2203.619	2.1	216.834°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:34.0	DLG	492755.4	5310742.3	Unknown	2203.586	2.0	216.238°	Site-Lobo ,VID_GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	04:33:36.0	DLG	492755.4	5310742.3	Unknown	2203.572	2.0	215.595°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:37.0	DLG	492755.4	5310742.3	Unknown	2203.532	1.8	214.295°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:39.0	DLG	492752.7	5310739.4	Unknown	2203.539	1.7	211.807°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:40.0	DLG	492752.7	5310739.4	Unknown	2203.552	1.8	209.540°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:42.0	DLG	492752.7	5310739.4	Unknown	2203.566	1.8	207.097°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:43.0	DLG	492752.7	5310739.4	Unknown	2203.466	1.6	205.818°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:44.0	DLG	492752.7	5310739.4	Unknown	2203.559	1.6	205.176°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	04:33:51.0	DLG	492752.7	5310739.4	Unknown	2203.598	1.6	204.189°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:33:56.0	DLG	492752.7	5310739.4	Unknown	2203.619	1.7	204.153°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:34:04.0	DLG	492751.7	5310735.6	Unknown	2203.546	1.4	203.951°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:34:09.0	DLG	492751.7	5310735.6	Unknown	2203.406	1.6	203.585°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:34:14.0	DLG	492751.7	5310735.6	Unknown	2203.406	1.5	205.198°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:34:17.0	DLG	492751.7	5310735.6	Unknown	2203.272	1.7	204.154°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:34:27.0	DLG	492751.3	5310734.3	Unknown	2202.819	1.4	204.585°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:34:34.0	DLG	492751.3	5310734.3	Unknown	2202.487	1.3	202.235°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:34:41.0	DLG	492749.3	5310733.3	Unknown	2202.337	1.4	204.586°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:35:12.0	DLG	492744.6	5310734.3	Unknown	2201.925	1.7	175.556°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:35:50.0	DLG	492745.7	5310733.6	Unknown	2204.096	1.2	26.159°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:36:02.0	DLG	492739.0	5310741.6	Unknown	2204.669	1.5	19.464°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:36:06.0	DLG	492739.0	5310741.6	Unknown	2204.583	1.6	27.341°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:36:17.0	DLG	492756.5	5310733.6	Unknown	2204.209	2.2	67.824°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:36:21.0	DLG	492756.5	5310733.6	Unknown	2204.456	2.5	68.430°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:36:35.0	DLG	492756.5	5310733.6	Unknown	2204.789	1.7	68.738°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:36:47.0	DLG	492758.1	5310735.6	Unknown	2205.169	2.6	56.638°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:36:57.0	DLG	492758.1	5310735.6	Unknown	2204.969	2.1	29.077°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:37:04.0	DLG	492757.7	5310736.0	Unknown	2205.721	1.4	29.452°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:37:10.0	DLG	492757.7	5310736.0	Unknown	2206.812	0.8	31.741°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:37:22.0	DLG	492763.3	5310736.2	Unknown	2207.194	0.8	351.098°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:37:33.0	DLG	492763.3	5310736.2	Unknown	2207.534	1.4	324.300°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:37:58.0	DLG	492761.8	5310746.6	Unknown	2210.630	2.7	2.501°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:38:11.0	DLG	492761.8	5310746.6	Unknown	2211.951	1.9	11.121°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:38:14.0	DLG	492761.8	5310746.6	Unknown	2211.825	2.2	8.826°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:38:27.0	DLG	492774.6	5310738.8	Unknown	2212.505	1.5	12.765°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:38:53.0	DLG	492774.0	5310740.2	Unknown	2213.685	0.7	15.804°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:38:57.0	DLG	492776.3	5310740.6	Unknown	2213.538	0.8	12.914°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:39:08.0	DLG	492776.3	5310740.6	Unknown	2212.978	1.8	329.133°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:39:11.0	DLG	492776.3	5310740.6	Unknown	2212.645	2.1	310.446°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:39:45.0	DLG	492776.7	5310748.8	Unknown	2211.789	2.1	274.858°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:39:52.0	DLG	492776.7	5310748.8	Unknown	2211.050	2.1	269.368°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:39:56.0	DLG	492776.7	5310748.8	Unknown	2210.173	2.0	271.616°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:03.0	DLG	492773.5	5310753.1	Unknown	2209.437	2.0	272.915°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:12.0	DLG	492773.5	5310753.1	Unknown	2209.437	2.1	277.306°	Site-Lobo ,there was a jerk
EVT	00/07/26	04:40:17.0	DLG	492773.5	5310753.1	Unknown	2208.744	1.5	271.247°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:20.0	DLG	492769.3	5310754.4	Unknown	2208.211	2.1	269.260°	Site-Lobo ,to jason
EVT	00/07/26	04:40:23.0	DLG	492769.3	5310754.4	Unknown	2207.405	2.9	252.287°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:25.0	DLG	492769.3	5310754.4	Unknown	2207.019	3.3	245.801°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:26.0	DLG	492769.3	5310754.4	Unknown	2206.099	3.7	239.909°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	04:40:27.0	DLG	492769.3	5310754.4	Unknown	2206.099	4.0	234.851°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:28.0	DLG	492769.3	5310754.4	Unknown	2205.480	4.5	235.397°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:30.0	DLG	492769.3	5310754.4	Unknown	2205.126	5.0	234.119°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:31.0	DLG	492769.3	5310754.4	Unknown	2204.327	5.8	234.444°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:33.0	DLG	492769.3	5310754.4	Unknown	2204.088	6.2	229.891°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:34.0	DLG	492769.3	5310754.4	Unknown	2203.787	6.4	224.065°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:35.0	DLG	492769.3	5310754.4	Unknown	2203.568	6.7	224.566°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:36.0	DLG	492769.3	5310754.4	Unknown	2203.334	7.4	224.035°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:38.0	DLG	492766.9	5310757.9	Unknown	2203.188	7.6	221.789°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:39.0	DLG	492766.9	5310757.9	Unknown	2202.949	8.0	217.676°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:41.0	DLG	492766.9	5310757.9	Unknown	2202.762	8.2	218.661°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:42.0	DLG	492766.9	5310757.9	Unknown	2202.595	8.4	218.041°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:44.0	DLG	492766.9	5310757.9	Unknown	2202.389	8.6	219.728°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:45.0	DLG	492766.9	5310757.9	Unknown	2202.062	8.8	221.020°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:46.0	DLG	492766.9	5310757.9	Unknown	2201.902	9.1	222.202°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:48.0	DLG	492766.9	5310757.9	Unknown	2201.649	9.2	219.122°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:49.0	DLG	492766.9	5310757.9	Unknown	2201.510	9.4	211.712°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:52.0	DLG	492766.9	5310757.9	Unknown	2201.103	9.6	206.475°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:54.0	DLG	492766.9	5310757.9	Unknown	2200.890	9.8	200.450°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:55.0	DLG	492766.9	5310757.9	Unknown	2200.524	10.2	193.062°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:57.0	DLG	492770.2	5310758.2	Unknown	2200.343	10.3	191.101°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:40:59.0	DLG	492770.2	5310758.2	Unknown	2200.204	10.8	191.470°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:01.0	DLG	492770.2	5310758.2	Unknown	2199.831	10.9	199.198°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:02.0	DLG	492770.2	5310758.2	Unknown	2199.691	11.0	210.509°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:04.0	DLG	492770.2	5310758.2	Unknown	2199.358	11.5	217.997°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:06.0	DLG	492770.2	5310758.2	Unknown	2199.204	11.7	218.343°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:08.0	DLG	492770.2	5310758.2	Unknown	2199.172	11.8	216.645°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:12.0	DLG	492770.2	5310758.2	Unknown	2198.858	11.9	219.576°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:42.0	DLG	492769.9	5310755.8	Unknown	2196.154	4.7	207.731°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:47.0	DLG	492769.9	5310755.8	Unknown	2195.353	1.7	207.584°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:49.0	DLG	492769.9	5310755.8	Unknown	2194.567	6.4	207.664°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:41:53.0	DLG	492769.9	5310755.8	Unknown	2193.975	2.7	208.027°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:00.0	DLG	492766.3	5310755.0	Unknown	2192.483	3.7	208.863°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:05.0	DLG	492766.3	5310755.0	Unknown	2191.617	10.7	229.633°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:10.0	DLG	492766.3	5310755.0	Unknown	2190.756	11.5	234.036°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:14.0	DLG	492766.3	5310755.0	Unknown	2190.110	12.1	231.695°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:18.0	DLG	492765.3	5310754.4	Unknown	2189.704	12.4	235.152°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:24.0	DLG	492765.3	5310754.4	Unknown	2189.325	12.7	247.087°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:34.0	DLG	492765.3	5310754.4	Unknown	2188.632	13.0	243.983°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:40.0	DLG	492764.4	5310757.2	Unknown	2188.252	13.7	245.766°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:44.0	DLG	492764.4	5310757.2	Unknown	2187.740	14.1	246.216°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:52.0	DLG	492764.4	5310757.2	Unknown	2187.085	6.0	246.345°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:42:56.0	DLG	492764.4	5310757.2	Unknown	2187.294	14.8	243.717°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:43:02.0	DLG	492762.6	5310757.4	Unknown	2187.953	14.1	244.623°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:43:07.0	DLG	492762.6	5310757.4	Unknown	2188.226	13.8	245.749°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:44:31.0	DLG	492755.5	5310750.2	Unknown	2191.457	13.2	291.045°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:44:50.0	DLG	492753.6	5310747.3	Unknown	2193.308	10.8	308.322°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	04:44:56.0	DLG	492753.6	5310747.3	Unknown	2193.834	10.1	315.577°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:00.0	DLG	492752.2	5310751.7	Unknown	2194.008	8.8	318.094°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:05.0	DLG	492752.2	5310751.7	Unknown	2193.914	8.5	318.012°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:12.0	DLG	492752.2	5310751.7	Unknown	2193.668	8.7	318.255°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:26.0	DLG	492751.7	5310754.3	Unknown	2193.601	9.0	329.156°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:36.0	DLG	492751.7	5310754.3	Unknown	2193.153	9.8	338.571°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:45.0	DLG	492753.9	5310753.0	Unknown	2193.079	9.3	341.842°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:49.0	DLG	492753.9	5310753.0	Unknown	2192.780	10.2	351.695°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:51.0	DLG	492753.9	5310753.0	Unknown	2192.680	10.4	352.215°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:45:54.0	DLG	492753.9	5310753.0	Unknown	2192.400	10.6	10.904°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:46:00.0	DLG	492751.5	5310753.3	Unknown	2192.301	11.1	14.689°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:46:09.0	DLG	492751.5	5310753.3	Unknown	2192.360	10.9	8.420°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:46:24.0	DLG	492750.5	5310754.0	Unknown	2193.799	8.6	32.150°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:47:33.0	DLG	492753.1	5310756.6	Unknown	2192.997	8.5	49.409°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:47:35.0	DLG	492753.1	5310756.6	Unknown	2192.857	9.5	49.229°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:47:41.0	DLG	492752.9	5310757.3	Unknown	2192.063	10.5	48.176°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:47:45.0	DLG	492752.9	5310757.3	Unknown	2191.504	9.9	45.308°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:47:53.0	DLG	492752.9	5310757.3	Unknown	2190.432	6.8	14.941°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:48:02.0	DLG	492754.3	5310757.6	Unknown	2190.292	5.6	8.277°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:48:04.0	DLG	492754.3	5310757.6	Unknown	2190.345	5.2	10.248°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:48:07.0	DLG	492754.3	5310757.6	Unknown	2190.655	4.8	9.603°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:48:11.0	DLG	492754.3	5310757.6	Unknown	2190.891	4.9	9.414°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:48:23.0	DLG	492755.6	5310757.5	Unknown	2189.817	7.4	14.869°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:48:27.0	DLG	492755.6	5310757.5	Unknown	2189.877	7.9	26.790°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:49:03.0	DLG	492753.1	5310757.9	Unknown	2190.962	11.1	40.239°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:49:10.0	DLG	492753.1	5310757.9	Unknown	2191.149	11.6	21.737°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:49:25.0	DLG	492751.0	5310754.5	Unknown	2190.809	13.1	339.022°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:49:33.0	DLG	492751.0	5310754.5	Unknown	2191.095	13.3	327.022°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:49:38.0	DLG	492753.6	5310749.8	Unknown	2191.228	13.4	323.799°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:49:44.0	DLG	492753.6	5310749.8	Unknown	2191.801	13.0	327.868°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:50:00.0	DLG	492757.9	5310750.0	Unknown	2192.252	12.9	314.044°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:50:31.0	DLG	492755.0	5310751.1	Unknown	2192.513	12.1	315.267°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:50:33.0	DLG	492755.0	5310751.1	Unknown	2192.557	11.9	314.141°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:51:28.0	DLG	492752.6	5310752.2	Unknown	2193.447	8.5	335.266°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:51:34.0	DLG	492752.6	5310752.2	Unknown	2193.241	7.6	337.028°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:51:37.0	DLG	492753.1	5310754.5	Unknown	2193.064	9.6	339.456°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:52:20.0	DLG	492750.8	5310755.7	Unknown	2192.981	9.8	42.697°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:52:24.0	DLG	492750.8	5310755.7	Unknown	2193.168	9.6	44.794°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:52:42.0	DLG	492750.4	5310757.3	Unknown	2193.627	8.9	49.266°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:52:47.0	DLG	492750.4	5310757.3	Unknown	2193.760	9.2	48.591°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:52:59.0	DLG	492751.7	5310756.8	Unknown	2194.040	8.5	49.807°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:53:16.0	DLG	492751.7	5310756.8	Unknown	2194.273	8.7	51.162°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:53:19.0	DLG	492752.6	5310758.9	Unknown	2194.599	8.5	51.064°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:53:29.0	DLG	492752.6	5310758.9	Unknown	2194.546	8.8	75.973°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:53:42.0	DLG	492752.2	5310759.4	Unknown	2195.385	8.0	83.251°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:02.0	DLG	492751.5	5310759.9	Unknown	2195.969	7.5	74.314°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:04.0	DLG	492751.5	5310759.9	Unknown	2196.311	7.1	68.067°	Site-Lobo ,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	04:54:09.0	DLG	492751.5	5310759.9	Unknown	2196.415	6.1	58.802°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:17.0	DLG	492751.5	5310759.9	Unknown	2196.242	6.6	58.228°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:25.0	DLG	492752.5	5310761.4	Unknown	2196.468	6.7	50.339°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:30.0	DLG	492752.5	5310761.4	Unknown	2196.435	7.2	38.503°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:37.0	DLG	492752.5	5310761.4	Unknown	2197.039	6.6	37.339°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:42.0	DLG	492753.0	5310762.8	Unknown	2197.175	6.7	41.211°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:45.0	DLG	492753.0	5310762.8	Unknown	2197.194	6.0	39.907°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:51.0	DLG	492753.0	5310762.8	Unknown	2197.378	5.7	38.922°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:52.0	DLG	492753.0	5310762.8	Unknown	2197.378	5.7	42.126°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:53.0	DLG	492753.0	5310762.8	Unknown	2197.438	5.7	41.969°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:55.0	DLG	492753.0	5310762.8	Unknown	2197.525	5.7	43.238°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:54:57.0	DLG	492753.5	5310762.4	Unknown	2197.614	5.6	42.682°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:55:01.0	DLG	492753.5	5310762.4	Unknown	2197.854	5.3	41.879°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:55:10.0	DLG	492753.5	5310762.4	Unknown	2197.885	5.1	41.281°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:55:23.0	DLG	492750.0	5310766.0	Unknown	2198.158	5.5	48.360°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:55:28.0	DLG	492750.0	5310766.0	Unknown	2198.571	4.5	47.883°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:55:39.0	DLG	492748.9	5310767.4	Unknown	2199.441	3.7	48.862°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:55:43.0	DLG	492748.9	5310767.4	Unknown	2199.881	3.0	48.762°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:55:53.0	DLG	492748.9	5310767.4	Unknown	2199.854	2.9	45.941°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:04.0	DLG	492751.0	5310759.1	Unknown	2198.842	3.9	49.996°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:08.0	DLG	492751.0	5310759.1	Unknown	2198.308	4.7	49.894°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:12.0	DLG	492751.0	5310759.1	Unknown	2197.576	5.3	49.640°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:14.0	DLG	492751.0	5310759.1	Unknown	2197.429	2.3	50.381°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:17.0	DLG	492751.0	5310759.1	Unknown	2197.103	5.8	49.361°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:23.0	DLG	492752.3	5310758.4	Unknown	2196.151	3.6	49.784°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:33.0	DLG	492752.3	5310758.4	Unknown	2194.445	5.3	50.631°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:39.0	DLG	492751.5	5310757.8	Unknown	2193.686	7.8	49.780°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:47.0	DLG	492751.5	5310757.8	Unknown	2192.528	5.2	49.205°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:56:55.0	DLG	492751.5	5310757.8	Unknown	2191.822	5.4	49.335°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:01.0	DLG	492752.7	5310757.2	Unknown	2191.583	4.2	49.403°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:05.0	DLG	492752.7	5310757.2	Unknown	2190.984	4.9	48.996°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:09.0	DLG	492752.7	5310757.2	Unknown	2190.704	5.7	48.501°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:18.0	DLG	492755.0	5310758.7	Unknown	2190.045	10.5	48.212°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:22.0	DLG	492755.0	5310758.7	Unknown	2189.552	12.4	47.737°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:25.0	DLG	492755.0	5310758.7	Unknown	2189.306	12.4	47.553°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:31.0	DLG	492755.0	5310758.7	Unknown	2188.920	13.7	41.578°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:34.0	DLG	492755.0	5310758.7	Unknown	2188.879	8.6	48.711°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:43.0	DLG	492754.7	5310761.3	Unknown	2188.441	9.1	48.795°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:45.0	DLG	492754.7	5310761.3	Unknown	2188.261	9.3	48.567°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:48.0	DLG	492754.7	5310761.3	Unknown	2188.001	9.1	48.275°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:57:52.0	DLG	492754.7	5310761.3	Unknown	2187.707	9.9	47.977°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:58:08.0	DLG	492758.5	5310761.4	Unknown	2187.619	9.9	50.256°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:58:25.0	DLG	492758.3	5310761.6	Unknown	2187.412	15.5	89.076°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:58:29.0	DLG	492758.3	5310761.6	Unknown	2187.226	8.8	88.141°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:58:33.0	DLG	492758.3	5310761.6	Unknown	2187.107	15.7	112.978°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:58:46.0	DLG	492759.8	5310762.5	Unknown	2187.053	15.8	150.336°	Site-Lobo ,VID_GRAB
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.3	175.038°	Site-Lobo ,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.102°	Site-Lobo ,
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.211°	Site-Lobo ,
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.211°	Site-Lobo ,
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.211°	Site-Lobo ,
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.211°	Site-Lobo ,
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.211°	Site-Lobo ,
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.386°	Site-Lobo ,
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.386°	Site-Lobo ,
EVT	00/07/26	04:59:07.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.386°	Site-Lobo ,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.386°	Site-Lobo ,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.386°	Site-Lobo ,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.386°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.386°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.386°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.627°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.627°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.393	17.2	175.627°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.449	17.2	175.934°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.449	17.2	175.934°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.449	17.2	175.934°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.449	17.2	175.934°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.449	17.2	176.241°	Site-Lobo ,,
EVT	00/07/26	04:59:08.0	DLG	492762.5	5310762.1	Unknown	2187.449	17.1	176.855°	Site-Lobo ,,
EVT	00/07/26	05:00:25.0	DLG	492759.0	5310763.8	Unknown	2188.886	14.7	109.058°	Site-Lobo ,changing tapes done....,
EVT	00/07/26	05:00:27.0	DLG	492759.0	5310763.8	Unknown	2189.070	15.4	104.372°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	05:01:27.0	DLG	492754.9	5310764.3	Unknown	2194.779	8.8	62.487°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	05:01:29.0	DLG	492754.9	5310764.3	Unknown	2194.437	9.0	62.195°	Site-Lobo ,VID_GRAB,
EVT	00/07/26	05:01:44.0	DLG	492754.3	5310763.9	Unknown	2192.273	11.2	62.062°	Site-Lobo ,VID_GRAB
EVT	00/07/26	05:02:03.0	DLG	492753.1	5310763.2	Unknown	2189.911	13.2	62.332°	Site-Lobo ,VID_GRAB
EVT	00/07/26	05:02:12.0	DLG	492753.1	5310763.2	Unknown	2189.659	13.4	62.747°	Site-Lobo ,VID_GRAB
EVT	00/07/26	05:02:47.0	DLG	492753.1	5310762.4	Unknown	2187.819	15.2	75.793°	Site-Lobo ,VID_GRAB
EVT	00/07/26	05:02:52.0	DLG	492753.1	5310762.4	Unknown	2187.841	15.1	77.120°	Site-Lobo ,VID_GRAB
EVT	00/07/26	05:03:33.0	DLG	492754.4	5310762.4	Unknown	2187.606	15.5	76.731°	Site-Lobo ,VID_GRAB
EVT	00/07/26	05:04:46.0	DLG	492752.4	5310765.9	Unknown	2186.004	17.2	79.039°	Site-Lobo ,VID_GRAB
EVT	00/07/26	05:05:45.0	DLG	492753.8	5310765.6	Unknown	2182.396	20.4	66.401°	Site-Lobo ,Waiting for the ship to move....they are making some adjustments...
EVT	00/07/26	05:06:26.0	DLG	492754.2	5310764.7	Unknown	2185.833	17.4	74.407°	Site-Lobo ,maybe they are setting things up
EVT	00/07/26	05:15:58.0	DLG	492753.1	5310766.0	Unknown	2185.765	17.6	74.817°	Site-Hulk-Crypto ,
EVT	00/07/26	05:16:16.0	DLG	492753.1	5310766.0	Unknown	2185.786	17.5	74.589°	Site-Hulk-Crypto,
EVT	00/07/26	05:16:39.0	DLG	492753.4	5310765.8	Unknown	2185.725	17.6	74.563°	Site-Hulk-Crypto,hovering there for about 30 mins now
EVT	00/07/26	05:16:43.0	DLG	492753.4	5310765.8	Unknown	2185.765	17.4	74.000°	Site-Hulk-Crypto,I guess :-)
EVT	00/07/26	05:18:19.0	DLG	492754.2	5310764.8	Unknown	2185.668	17.5	73.863°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:19:23.0	DLG	492753.6	5310765.7	Unknown	2185.777	17.5	74.301°	Site-Hulk-Crypto,We are about 12m from the object we see on the screen
EVT	00/07/26	05:19:52.0	DLG	492753.8	5310765.5	Unknown	2185.786	17.2	73.378°	Site-Hulk-Crypto,Recording at 5:14

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	05:19:58.0	DLG	492753.9	5310765.5	Unknown	2185.752	17.5	74.371°	Site-Hulk-Crypto,Still recording
EVT	00/07/26	05:20:11.0	DLG	492753.9	5310765.5	Unknown	2185.705	17.4	73.981°	Site-Hulk-Crypto,planning on doing 4 cycles
EVT	00/07/26	05:21:04.0	DLG	492753.7	5310765.7	Unknown	2185.698	17.5	74.347°	Site-Hulk-Crypto,File no 119
EVT	00/07/26	05:21:28.0	DLG	492753.5	5310765.3	Unknown	2185.728	14.3	73.504°	Site-Hulk-Crypto,we recorded 119 files! Good God!!!!!!!
EVT	00/07/26	05:21:49.0	DLG	492753.5	5310765.3	Unknown	2185.781	17.5	74.101°	Site-Hulk-Crypto,Nice way to generate some techno junk!!!!
EVT	00/07/26	05:22:03.0	DLG	492753.1	5310766.0	Unknown	2185.728	17.3	73.904°	Site-Hulk-Crypto,I didn't actually mean it though
EVT	00/07/26	05:22:06.0	DLG	492753.1	5310766.0	Unknown	2185.795	17.3	73.477°	Site-Hulk-Crypto,-)
EVT	00/07/26	05:22:12.0	DLG	492753.1	5310766.0	Unknown	2185.748	17.4	73.768°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:22:14.0	DLG	492753.1	5310766.0	Unknown	2185.795	17.3	73.914°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:22:17.0	DLG	492753.1	5310766.0	Unknown	2185.795	17.3	74.017°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:22:32.0	DLG	492753.9	5310765.7	Unknown	2185.788	17.4	74.301°	Site-Hulk-Crypto,
EVT	00/07/26	05:31:08.0	DLG	492753.0	5310765.9	Unknown	2185.393	17.6	73.529°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:31:21.0	DLG	492754.0	5310765.0	Unknown	2185.570	17.7	74.370°	Site-Hulk-Crypto,Switched cameras
EVT	00/07/26	05:31:34.0	DLG	492754.0	5310765.0	Unknown	2185.540	17.7	74.594°	Site-Hulk-Crypto,like the input to the videos
EVT	00/07/26	05:31:36.0	DLG	492754.0	5310765.0	Unknown	2185.424	17.6	73.707°	Site-Hulk-Crypto,I mean
EVT	00/07/26	05:32:50.0	DLG	492753.5	5310765.4	Unknown	2185.806	17.4	74.934°	Site-Hulk-Crypto,Stopped recording
EVT	00/07/26	05:34:23.0	DLG	492752.7	5310766.5	Unknown	2185.837	17.3	74.389°	Site-Hulk-Crypto,They say Hulk is active
EVT	00/07/26	05:37:01.0	DLG	492746.0	5310758.0	Unknown	2206.988	2.0	170.372°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:37:49.0	DLG	492738.3	5310743.0	Unknown	2202.698	5.8	145.243°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:38:32.0	DLG	492738.3	5310741.7	Unknown	2207.128	2.6	168.690°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:38:56.0	DLG	492735.4	5310741.1	Unknown	2206.082	3.5	102.610°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:00.0	DLG	492733.9	5310741.1	Unknown	2205.602	4.3	68.496°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:03.0	DLG	492733.9	5310741.1	Unknown	2205.323	4.8	54.733°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:06.0	DLG	492733.9	5310741.1	Unknown	2204.017	5.8	53.866°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:09.0	DLG	492733.9	5310741.1	Unknown	2203.177	6.9	51.243°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:11.0	DLG	492733.9	5310741.1	Unknown	2202.245	7.1	37.879°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:16.0	DLG	492733.9	5310741.1	Unknown	2201.399	8.0	26.590°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:18.0	DLG	492733.9	5310741.1	Unknown	2201.246	8.1	25.002°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:23.0	DLG	492733.9	5310741.1	Unknown	2201.092	2.9	23.318°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:39:34.0	DLG	492733.9	5310741.1	Unknown	2201.912	1.2	21.880°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:40:06.0	DLG	492745.2	5310738.8	Unknown	2203.011	1.0	19.168°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:40:23.0	DLG	492748.9	5310739.7	Unknown	2203.011	0.7	17.270°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:40:29.0	DLG	492748.9	5310739.7	Unknown	2203.451	1.9	19.360°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:40:39.0	DLG	492749.7	5310739.9	Unknown	2203.310	1.0	19.574°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:40:46.0	DLG	492749.7	5310739.9	Unknown	2202.453	2.0	16.606°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:40:50.0	DLG	492749.7	5310739.9	Unknown	2202.318	2.4	16.088°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:40:58.0	DLG	492752.6	5310741.4	Unknown	2203.040	2.0	19.251°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:41:04.0	DLG	492752.6	5310741.4	Unknown	2204.030	1.3	18.442°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:41:10.0	DLG	492752.6	5310741.4	Unknown	2204.043	1.3	17.062°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:41:20.0	DLG	492752.6	5310741.4	Unknown	2203.113	1.8	13.888°	Site-Hulk-Crypto,bigger diffuse flow over here
EVT	00/07/26	05:41:23.0	DLG	492752.6	5310741.4	Unknown	2202.760	2.3	13.574°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:41:28.0	DLG	492752.6	5310741.4	Unknown	2202.287	3.0	15.775°	Site-Hulk-Crypto,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	05:41:31.0	DLG	492752.6	5310741.4	Unknown	2201.659	3.7	13.791°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:41:34.0	DLG	492752.6	5310741.4	Unknown	2200.806	4.7	12.175°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:41:56.0	DLG	492756.3	5310746.8	Unknown	2198.741	5.7	352.226°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:41:58.0	DLG	492762.1	5310752.6	Unknown	2198.617	5.9	342.792°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:42:00.0	DLG	492762.1	5310752.6	Unknown	2198.555	5.9	345.687°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:42:05.0	DLG	492762.1	5310752.6	Unknown	2197.802	3.7	347.057°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:42:07.0	DLG	492762.1	5310752.6	Unknown	2197.372	7.1	346.852°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:13.0	DLG	492736.9	5310760.7	Unknown	2203.038	4.6	124.149°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:15.0	DLG	492736.9	5310760.7	Unknown	2203.132	4.2	119.552°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:17.0	DLG	492736.9	5310760.7	Unknown	2202.874	4.0	115.722°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:20.0	DLG	492736.9	5310760.7	Unknown	2202.637	2.2	115.558°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:23.0	DLG	492736.9	5310760.7	Unknown	2202.158	1.3	117.900°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:28.0	DLG	492736.9	5310760.7	Unknown	2201.980	1.5	116.304°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:30.0	DLG	492736.9	5310760.7	Unknown	2201.885	1.7	106.893°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:33.0	DLG	492736.9	5310760.7	Unknown	2201.912	1.7	105.367°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:37.0	DLG	492736.9	5310760.7	Unknown	2202.045	1.7	114.102°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:40.0	DLG	492747.3	5310745.2	Unknown	2202.078	2.0	129.801°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:50.0	DLG	492747.3	5310745.2	Unknown	2202.592	2.0	138.649°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:53.0	DLG	492747.3	5310745.2	Unknown	2202.641	2.0	138.970°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:44:58.0	DLG	492747.1	5310737.8	Unknown	2202.592	2.0	118.652°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:45:02.0	DLG	492747.1	5310737.8	Unknown	2202.893	1.9	98.162°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:45:26.0	DLG	492754.3	5310731.5	Unknown	2204.597	2.2	90.266°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:45:29.0	DLG	492754.3	5310731.5	Unknown	2204.537	2.5	87.159°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:45:33.0	DLG	492754.3	5310731.5	Unknown	2204.770	2.4	90.576°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:45:38.0	DLG	492757.2	5310728.9	Unknown	2205.249	2.0	91.548°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:45:46.0	DLG	492757.2	5310728.9	Unknown	2205.644	1.9	90.404°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:45:51.0	DLG	492757.2	5310728.9	Unknown	2205.862	1.6	89.949°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:45:57.0	DLG	492757.2	5310728.9	Unknown	2206.009	1.3	90.547°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:46:06.0	DLG	492760.0	5310727.7	Unknown	2205.789	1.0	92.034°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:46:10.0	DLG	492760.0	5310727.7	Unknown	2205.822	0.9	93.957°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:46:16.0	DLG	492760.0	5310727.7	Unknown	2205.543	1.4	111.714°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:46:43.0	DLG	492763.1	5310730.7	Unknown	2204.163	4.0	140.349°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:46:51.0	DLG	492763.1	5310730.7	Unknown	2203.237	6.0	140.700°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:46:57.0	DLG	492765.3	5310730.1	Unknown	2202.465	8.1	140.153°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:47:19.0	DLG	492766.7	5310729.7	Unknown	2200.732	12.1	173.220°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:47:32.0	DLG	492766.7	5310729.7	Unknown	2200.499	12.0	200.824°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:47:37.0	DLG	492771.4	5310727.1	Unknown	2201.399	11.0	196.986°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:47:40.0	DLG	492771.4	5310727.1	Unknown	2201.559	10.8	198.052°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:48:04.0	DLG	492768.6	5310726.1	Unknown	2200.300	12.3	196.728°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:48:36.0	DLG	492770.3	5310724.4	Unknown	2198.965	13.4	210.805°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:48:45.0	DLG	492770.8	5310723.7	Unknown	2198.415	13.5	213.260°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:48:49.0	DLG	492770.8	5310723.7	Unknown	2198.468	3.6	218.103°	Site-Hulk-Crypto,
EVT	00/07/26	05:49:42.0	DLG	492765.9	5310715.8	Unknown	2204.880	3.0	302.053°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:49:45.0	DLG	492765.9	5310715.8	Unknown	2204.594	3.2	301.870°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:49:49.0	DLG	492765.9	5310715.8	Unknown	2204.394	2.8	312.974°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:49:53.0	DLG	492765.9	5310715.8	Unknown	2204.440	3.3	319.512°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:50:05.0	DLG	492765.9	5310715.8	Unknown	2203.765	2.7	343.953°	Site-Hulk-Crypto,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	05:50:31.0	DLG	492765.9	5310715.8	Unknown	2205.404	1.3	347.588°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:50:33.0	DLG	492765.9	5310715.8	Unknown	2205.325	1.4	347.141°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:51:05.0	DLG	492758.8	5310718.8	Unknown	2202.931	3.4	347.813°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:51:49.0	DLG	492762.8	5310719.7	Unknown	2201.482	9.2	347.856°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:51:52.0	DLG	492762.8	5310719.7	Unknown	2201.660	8.3	350.944°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:52:01.0	DLG	492762.6	5310720.3	Unknown	2201.903	6.6	2.717°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:52:49.0	DLG	492760.2	5310722.8	Unknown	2203.792	4.3	20.743°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:53:08.0	DLG	492761.3	5310722.8	Unknown	2203.989	4.2	21.588°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:53:28.0	DLG	492759.7	5310723.3	Unknown	2205.434	2.6	21.461°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:54:06.0	DLG	492759.5	5310724.7	Unknown	2206.080	1.8	21.719°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:54:16.0	DLG	492759.5	5310724.7	Unknown	2206.114	1.9	21.536°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	05:58:23.0	DLG	492767.2	5310711.9	Unknown	2200.264	11.0	327.218°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	06:00:53.0	DLG	492768.0	5310712.8	Unknown	2200.653	10.9	327.514°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	06:04:41.0	DLG	492767.6	5310713.0	Unknown	2200.792	10.6	327.568°	Site-Hulk-Crypto,VID_GRAB
EVT	00/07/26	06:05:11.0	DLG	492767.9	5310712.3	Unknown	2200.703	11.0	327.522°	Site-Hulk-Crypto,We are at the top of Crypto
EVT	00/07/26	06:05:26.0	DLG	492767.2	5310712.3	Unknown	2200.711	10.6	328.093°	Site-Crypto,Changing guard
EVT	00/07/26	06:06:51.0	DLG	492767.1	5310713.1	Unknown	2200.777	10.5	328.494°	Site-Crypto,Recording
EVT	00/07/26	06:07:05.0	DLG	492767.2	5310713.3	Unknown	2200.740	10.6	328.209°	Site-Crypto,file no 120
EVT	00/07/26	06:16:27.0	DLG	492768.2	5310712.3	Unknown	2200.811	10.9	328.530°	Site-Crypto,Another vessel wants to work in the same spot here
EVT	00/07/26	06:16:43.0	DLG	492768.0	5310712.7	Unknown	2200.821	10.6	328.789°	Site-Crypto,they are talking to Rona about the amount of space and time they need
EVT	00/07/26	06:17:19.0	DLG	492767.0	5310713.0	Unknown	2200.830	10.5	329.188°	Site-Crypto,they say they need some 3 hrs in this area and they want us to move out of this spot
EVT	00/07/26	06:17:38.0	DLG	492769.4	5310711.7	Unknown	2200.852	10.2	328.447°	Site-Crypto,I guess the name of the vessel is Sully
EVT	00/07/26	06:18:10.0	DLG	492767.6	5310712.9	Unknown	2200.786	10.2	329.340°	Site-Crypto,The capt. of our ship is coming down to the van to discuss this from a safety point of view
EVT	00/07/26	06:18:29.0	DLG	492768.8	5310711.9	Unknown	2200.859	10.1	328.908°	Site-Crypto,Rona is conferring with the other ship over the radio
EVT	00/07/26	06:18:48.0	DLG	492769.3	5310712.0	Unknown	2200.908	10.1	328.886°	Site-Crypto,interesting issue
EVT	00/07/26	06:21:14.0	DLG	492768.3	5310712.1	Unknown	2200.842	4.7	328.706°	Site-Crypto,Maybe we will move out
EVT	00/07/26	06:21:22.0	DLG	492768.0	5310712.4	Unknown	2200.882	10.1	328.044°	Site-Crypto,They are Canadians
EVT	00/07/26	06:21:25.0	DLG	492768.0	5310712.4	Unknown	2200.822	10.2	328.521°	Site-Crypto,they say
EVT	00/07/26	06:23:31.0	DLG	492767.9	5310712.4	Unknown	2200.946	10.2	328.863°	Site-Crypto,I guess the name of the other ship is Tully
EVT	00/07/26	06:23:36.0	DLG	492767.9	5310712.4	Unknown	2200.793	10.1	328.981°	Site-Crypto,sorta
EVT	00/07/26	06:30:10.0	DLG	492768.7	5310711.9	Unknown	2200.817	10.1	328.359°	Site-Crypto,So problem solved
EVT	00/07/26	06:30:17.0	DLG	492768.3	5310711.9	Unknown	2200.718	10.5	330.161°	Site-Crypto,Stopped recording
EVT	00/07/26	06:30:20.0	DLG	492768.3	5310711.9	Unknown	2200.631	10.3	329.954°	Site-Crypto,recording
EVT	00/07/26	06:32:07.0	DLG	492765.7	5310710.5	Unknown	2198.616	4.4	149.625°	Site-Crypto,Moving off to find a perch....
EVT	00/07/26	06:32:12.0	DLG	492765.7	5310710.5	Unknown	2198.691	11.8	149.281°	Site-Crypto,lets go find it!!!!
EVT	00/07/26	06:32:45.0	DLG	492767.1	5310706.0	Unknown	2198.505	11.6	198.553°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:32:50.0	DLG	492767.1	5310706.0	Unknown	2198.764	7.3	202.449°	Site-Crypto,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	06:32:57.0	DLG	492764.5	5310702.3	Unknown	2199.783	10.1	174.344°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:33:24.0	DLG	492768.3	5310701.8	Unknown	2201.509	8.7	186.766°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:33:35.0	DLG	492768.3	5310701.8	Unknown	2201.569	8.6	201.168°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:34:07.0	DLG	492765.4	5310702.7	Unknown	2201.172	8.7	255.586°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:34:37.0	DLG	492765.1	5310701.4	Unknown	2201.769	8.8	320.951°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:34:42.0	DLG	492765.1	5310701.4	Unknown	2201.762	4.4	319.508°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:34:51.0	DLG	492765.1	5310701.4	Unknown	2201.504	9.0	324.272°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:35:04.0	DLG	492764.7	5310701.9	Unknown	2201.662	2.3	326.123°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:35:24.0	DLG	492764.0	5310702.8	Unknown	2200.936	2.3	325.909°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:35:33.0	DLG	492764.0	5310702.8	Unknown	2201.628	2.0	327.156°	Site-Crypto,Looking to perch on that one !!!
EVT	00/07/26	06:35:36.0	DLG	492764.0	5310702.8	Unknown	2201.527	2.1	327.277°	Site-Crypto,weard!!!!!!!
EVT	00/07/26	06:35:41.0	DLG	492763.8	5310702.9	Unknown	2201.295	9.2	326.580°	Site-Crypto,ain't it?
EVT	00/07/26	06:35:58.0	DLG	492764.0	5310701.6	Unknown	2201.349	9.3	323.740°	Site-Crypto,maybe not
EVT	00/07/26	06:36:10.0	DLG	492764.0	5310701.6	Unknown	2201.689	8.8	322.672°	Site-Crypto,maybe yes...:-)
EVT	00/07/26	06:36:52.0	DLG	492763.6	5310702.1	Unknown	2199.994	2.2	321.972°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:37:59.0	DLG	492767.5	5310710.1	Unknown	2201.160	7.1	328.317°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:39:28.0	DLG	492758.8	5310712.5	Unknown	2207.732	1.0	120.846°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:39:35.0	DLG	492758.8	5310712.5	Unknown	2207.382	1.3	120.737°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:40:14.0	DLG	492758.8	5310712.5	Unknown	2207.326	3.1	208.068°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:40:40.0	DLG	492758.8	5310712.5	Unknown	2205.987	4.3	274.019°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:41:22.0	DLG	492754.2	5310711.6	Unknown	2205.119	1.9	20.744°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:41:34.0	DLG	492754.2	5310711.6	Unknown	2206.178	1.1	15.170°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:41:42.0	DLG	492754.2	5310711.6	Unknown	2206.791	0.7	16.179°	Site-Crypto,VID_GRAB
EVT	00/07/26	06:49:33.0	DLG	492754.2	5310711.6	Unknown	2206.955	1.6	77.176°	Site-Crypto,trying to land in the vicinity of Crypto for sonar imaging
EVT	00/07/26	06:56:16.0	DLG	492754.0	5310714.5	Unknown	2206.574	1.9	93.468°	Site-Crypto,landed on a pinnacle to acoustically image Crypto
EVT	00/07/26	07:07:02.0	DLG	492749.9	5310714.2	Unknown	2206.450	1.4	88.437°	Site-Crypto,starting to drift a bit
EVT	00/07/26	07:08:46.0	DLG	492749.9	5310714.2	Unknown	2206.883	0.9	94.848°	Site-Crypto,restarting SM2000 software
EVT	00/07/26	07:10:08.0	DLG	492747.1	5310714.0	Unknown	2206.810	0.8	94.290°	Site-Crypto,regained stability on the perch
EVT	00/07/26	07:11:14.0	DLG	492747.1	5310714.0	Unknown	2206.881	1.4	93.849°	Site-Crypto,SM2000 seems to be hung up
EVT	00/07/26	07:12:56.0	DLG	492747.1	5310714.0	Unknown	2206.845	0.8	92.378°	Site-Crypto,"sitting on a perch, Crypto dead ahead at about 12m to the centre (structure about 4m diameter)"
EVT	00/07/26	07:13:38.0	DLG	492747.1	5310714.0	Unknown	2206.943	0.8	91.347°	Site-Crypto,restarting SM2000 software
EVT	00/07/26	07:19:43.0	DLG	492747.1	5310714.0	Unknown	2206.858	1.5	110.829°	Site-Crypto,"sonar rotator indicator went 'wonky', turned off Science bus and restarted SM2000 software"
EVT	00/07/26	07:22:38.0	DLG	492746.5	5310715.1	Unknown	2206.986	1.7	109.355°	Site-Crypto,SM2000 is restarted and seems to be working fine
EVT	00/07/26	07:38:09.0	DLG	492746.5	5310715.1	Unknown	2206.905	1.4	100.955°	Site-Crypto,testing to see if the sonar will visualize the plume
EVT	00/07/26	07:39:56.0	DLG	492746.5	5310715.1	Unknown	2206.812	1.5	100.543°	Site-Crypto,"SM2000 software crashed, restarting",,
EVT	00/07/26	07:42:40.0	DLG	492746.5	5310715.1	Unknown	2206.862	1.8	99.256°	Site-Crypto,recalibrating rotator,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	07:49:51.0	DLG	492746.5	5310715.1	Unknown	2206.604	1.1	95.360°	Site-Crypto,side lobes from a structure at the same range as Crypto is putting the quality of data collection at this site into question,,
EVT	00/07/26	07:51:25.0	DLG	492746.5	5310715.1	Unknown	2206.561	1.7	94.922°	Site-Crypto,contemplating finding another position to eliminate and/or reduce the side lobes being observed,,
EVT	00/07/26	07:54:23.0	DLG	492746.5	5310715.1	Unknown	2206.659	1.4	111.836°	Site-Crypto,restarting SM2000 software,,
EVT	00/07/26	08:03:21.0	DLG	492746.5	5310715.1	Unknown	2206.452	0.9	109.899°	Site-Crypto,VID_GRAB,grab of Medea camera looking down at JASON and showing some plume,
EVT	00/07/26	08:04:34.0	DLG	492746.5	5310715.1	Unknown	2206.479	1.7	109.568°	Site-Crypto,VID_GRAB,frame grab of Medea cam again showing plume and JASON,
EVT	00/07/26	08:08:22.0	DLG	492752.7	5310714.9	Unknown	2206.414	1.4	108.769°	Site-Crypto,VID_GRAB,another Medea cam frame grab,
EVT	00/07/26	08:13:41.0	DLG	492752.7	5310714.9	Unknown	2206.465	0.9	106.727°	Site-Crypto,VID_GRAB,Medea frame grab,
EVT	00/07/26	08:15:35.0	DLG	492752.7	5310714.9	Unknown	2206.365	1.6	106.138°	Site-Crypto,VID_GRAB,,
EVT	00/07/26	08:15:49.0	DLG	492752.7	5310714.9	Unknown	2206.359	1.6	106.448°	Site-Crypto,VID_GRAB,,
EVT	00/07/26	08:17:06.0	DLG	492752.7	5310714.9	Unknown	2206.283	1.6	106.040°	Site-Crypto,"SM2000 software crashed, restarting",,
EVT	00/07/26	08:21:30.0	DLG	492752.7	5310714.9	Unknown	2206.270	1.4	104.932°	Site-Crypto,"SM2000 computer seems slow, rebooting to attempt to clean up the system",,
EVT	00/07/26	08:27:56.0	DLG	492752.7	5310714.9	Unknown	2206.284	1.4	103.610°	Site-Crypto,restarting the computer seemed to speed up the computer significantly,,
EVT	00/07/26	08:29:31.0	DLG	492752.7	5310714.9	Unknown	2206.382	2.0	103.654°	Site-Crypto,, PLUME,"start recording P2 00G26121, stationary"
EVT	00/07/26	08:59:45.0	DLG	492750.3	5310713.8	Unknown	2206.279	1.5	98.207°	Site-Crypto,stop recording,,
EVT	00/07/26	09:01:47.0	DLG	492752.4	5310713.4	Unknown	2205.556	0.8	24.363°	Site-Crypto,planning to take off from current perch to find another (to get rid of interference being experienced from the structure causing side lobes and some shimmering water in the area),,
EVT	00/07/26	09:03:03.0	DLG	492759.4	5310721.5	Unknown	2197.169	9.4	41.950°	Site-Crypto,VID_GRAB,the structure suspected of causing interference (a large structure with a large amount of smoking),
EVT	00/07/26	09:03:31.0	DLG	492762.7	5310721.4	Unknown	2197.203	9.8	45.843°	Site-Crypto,VID_GRAB,Hulk (the structure causing side lobe interference),
EVT	00/07/26	09:05:33.0	DLG	492758.4	5310718.1	Unknown	2200.313	8.4	86.190°	Site-Crypto,, PLUME,preparing for an elevator
EVT	00/07/26	09:06:37.0	DLG	492758.0	5310709.0	Unknown	2199.103	8.5	102.299°	Site-Crypto,VID_GRAB,Crypto smoke plume,
EVT	00/07/26	09:07:42.0	DLG	492756.3	5310710.5	Unknown	2202.190	7.0	103.774°	Site-Crypto,looking for beginning of the plume,,
EVT	00/07/26	09:07:57.0	DLG	492757.2	5310709.6	Unknown	2201.526	5.8	101.882°	Site-Crypto,VID_GRAB,beginning of the Crypto plume,
EVT	00/07/26	09:08:45.0	DLG	492755.9	5310709.1	Unknown	2200.815	6.0	102.506°	Site-Crypto,, PLUME,start recording elevator 00G26122
EVT	00/07/26	09:08:53.0	DLG	492755.9	5310709.1	Unknown	2199.989	2.9	102.613°	Site-Crypto,beginning slow rise,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	09:09:05.0	DLG	492754.6	5310710.3	Unknown	2198.712	7.9	102.533°	Site-Crypto,rising,,
EVT	00/07/26	09:09:13.0	DLG	492754.6	5310710.3	Unknown	2197.747	8.6	102.728°	Site-Crypto,rising,,
EVT	00/07/26	09:09:24.0	DLG	492755.0	5310709.8	Unknown	2196.641	9.9	102.542°	Site-Crypto,rising,,
EVT	00/07/26	09:09:36.0	DLG	492755.0	5310709.8	Unknown	2195.057	11.2	102.636°	Site-Crypto,rising,,
EVT	00/07/26	09:09:48.0	DLG	492754.1	5310710.2	Unknown	2193.532	12.7	102.578°	Site-Crypto,rising,,
EVT	00/07/26	09:10:02.0	DLG	492755.0	5310710.0	Unknown	2192.049	14.3	102.427°	Site-Crypto,rising,,
EVT	00/07/26	09:10:29.0	DLG	492754.9	5310709.4	Unknown	2188.463	17.5	102.145°	Site-Crypto,planning to rise until doppler lock lost on JASON (about 30m),,
EVT	00/07/26	09:11:05.0	DLG	492754.7	5310709.6	Unknown	2183.746	21.9	102.434°	Site-Crypto,make that about 28 m (want to break free prior to losing lock in JASON),,
EVT	00/07/26	09:11:32.0	DLG	492754.4	5310709.7	Unknown	2179.917	25.3	102.570°	Site-Crypto,rising,,
EVT	00/07/26	09:11:59.0	DLG	492755.1	5310709.2	Unknown	2176.331	28.7	102.117°	Site-Crypto,"rising, getting ready to stop",,
EVT	00/07/26	09:12:10.0	DLG	492755.1	5310709.2	Unknown	2175.075	29.7	101.554°	Site-Crypto,stop recording,,
EVT	00/07/26	09:12:30.0	DLG	492756.5	5310708.8	Unknown	2176.466	28.2	101.430°	Site-Crypto,preparing for another elevator,,
EVT	00/07/26	09:13:34.0	DLG	492754.9	5310709.7	Unknown	2187.760	18.0	102.664°	Site-Crypto,"planning to repeat, but continue beyond losing doppler lock (at which time, JASON xy position will become erratic)",,
EVT	00/07/26	09:16:20.0	DLG	492755.5	5310709.8	Unknown	2202.376	4.2	102.140°	Site-Crypto,, PLUME,"start recording P6 00G26123, elevator extending up beyond JASON doppler lock range to image particulate on up the water column"
EVT	00/07/26	09:16:29.0	DLG	492755.5	5310709.8	Unknown	2201.843	4.8	102.221°	Site-Crypto,starting to ascend,,
EVT	00/07/26	09:17:02.0	DLG	492755.2	5310710.1	Unknown	2198.308	8.2	102.385°	Site-Crypto,ascending using the natural buoyancy of vehicle to maintain slow steady rise,,
EVT	00/07/26	09:17:55.0	DLG	492755.4	5310709.9	Unknown	2192.442	13.6	102.666°	Site-Crypto,rising,,
EVT	00/07/26	09:18:33.0	DLG	492754.9	5310709.7	Unknown	2187.804	17.9	102.373°	Site-Crypto,rising,,
EVT	00/07/26	09:19:21.0	DLG	492755.4	5310708.3	Unknown	2181.598	23.4	102.625°	Site-Crypto,rising,,
EVT	00/07/26	09:19:41.0	DLG	492755.5	5310708.9	Unknown	2179.056	26.1	102.455°	Site-Crypto,preparing to kill auto xy,,
EVT	00/07/26	09:20:01.0	DLG	492755.4	5310708.9	Unknown	2175.973	28.9	103.030°	Site-Crypto,"kill auto xy, no longer on doppler lock",,
EVT	00/07/26	09:20:31.0	DLG	492754.8	5310709.3	Unknown	2170.870	30.0	103.227°	Site-Crypto,rising,,
EVT	00/07/26	09:20:39.0	DLG	492754.5	5310710.5	Unknown	2169.553	30.0	102.698°	Site-Crypto,rising,,
EVT	00/07/26	09:20:49.0	DLG	492754.5	5310710.5	Unknown	2168.197	30.0	102.338°	Site-Crypto,rising
EVT	00/07/26	09:21:00.0	DLG	492754.0	5310710.5	Unknown	2166.756	30.0	101.862°	Site-Crypto,rising
EVT	00/07/26	09:21:38.0	DLG	492754.7	5310710.9	Unknown	2161.261	30.0	102.452°	Site-Crypto,"NOTE: altitude reading no longer accurate, cannot get reading past 30m"
EVT	00/07/26	09:22:06.0	DLG	492755.4	5310709.3	Unknown	2158.355	30.0	102.521°	Site-Crypto,rising
EVT	00/07/26	09:22:32.0	DLG	492752.4	5310709.9	Unknown	2155.804	21.3	102.507°	Site-Crypto,rising
EVT	00/07/26	09:22:56.0	DLG	492752.4	5310708.5	Unknown	2152.982	25.1	102.698°	Site-Crypto,rising
EVT	00/07/26	09:23:13.0	DLG	492753.2	5310707.8	Unknown	2150.696	30.0	102.231°	Site-Crypto,rising
EVT	00/07/26	09:23:23.0	DLG	492752.4	5310708.2	Unknown	2149.368	30.0	103.122°	Site-Crypto,rising
EVT	00/07/26	09:23:43.0	DLG	492752.7	5310707.7	Unknown	2147.470	30.0	102.448°	Site-Crypto,stop recording
EVT	00/07/26	09:24:05.0	DLG	492752.8	5310708.5	Unknown	2147.559	30.0	102.557°	Site-Crypto,"finished Crypto, planning to move on"

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EVT	00/07/26	09:25:35.0	DLG	492753.6	5310709.7	Unknown	2154.675	30.0	98.791°	Site-Crypto,"planning to move on to TP, only 20m away so do not require bridge permission (JP Tully activities nearby, requiring notification for changes of over 100m)"
EVT	00/07/26	09:32:32.0	DLG	492751.0	5310716.9	Unknown	2203.139	2.0	203.458°	reached visual range of bottom, moving off to find TP,
EVT	00/07/26	09:37:54.0	DLG	492731.8	5310707.3	Unknown	2199.467	1.9	202.306°	VID_GRAB,trench between Crypto and TP
EVT	00/07/26	09:38:13.0	DLG	492732.5	5310706.9	Unknown	2199.443	2.0	202.227°	holding position to wait for Medea,
EVT	00/07/26	09:45:54.0	DLG	492732.2	5310706.2	Unknown	2199.358	6.1	204.108°	crossing trench, expecting TP on other side,
EVT	00/07/26	09:49:55.0	DLG	492722.6	5310717.0	Unknown	2182.382	16.1	143.039°	VID_GRAB,dead chimneys
EVT	00/07/26	09:51:01.0	DLG	492715.3	5310716.4	Unknown	2174.840	23.1	108.101°	VID_GRAB,structure ballooning out from thin 'waist'
EVT	00/07/26	09:51:20.0	DLG	492715.2	5310715.5	Unknown	2172.645	25.0	110.044°	VID_GRAB,top of structure
EVT	00/07/26	09:52:10.0	DLG	492715.6	5310716.9	Unknown	2172.473	24.4	127.824°	confirmed, we are at TP,
EVT	00/07/26	09:52:37.0	DLG	492716.1	5310717.5	Unknown	2173.146	24.4	130.290°	no smoking source observed yet at TP, although signs of smoking in the vicinity are present,
EVT	00/07/26	09:53:31.0	DLG	492717.0	5310715.0	Unknown	2173.493	24.0	145.616°	another structure spotted ahead (on sonar), possibly Dudley,
EVT	00/07/26	09:55:10.0	DLG	492717.3	5310714.6	Unknown	2172.377	19.8	138.330°	at top of TP,
EVT	00/07/26	09:55:29.0	DLG	492718.1	5310714.1	Unknown	2172.277	25.5	141.414°	planning to return to base in order to search for diffuse flow,
EVT	00/07/26	09:56:07.0	DLG	492716.0	5310715.6	Unknown	2173.495	24.1	150.902°	hovering at top of TP to wait for Medea to reposition,
EVT	00/07/26	09:56:40.0	DLG	492716.8	5310715.5	Unknown	2173.297	24.4	150.736°	VID_GRAB,tip of TP
EVT	00/07/26	09:57:28.0	DLG	492716.1	5310714.4	Unknown	2173.597	8.9	149.228°	VID_GRAB,tip of TP
EVT	00/07/26	10:05:48.0	DLG	492713.4	5310717.3	Unknown	2173.841	23.6	104.496°	Medea in position, moving down chimney to explore for diffuse flow,
EVT	00/07/26	10:12:18.0	DLG	492712.1	5310707.3	Unknown	2189.738	7.2	120.233°	found another structure adjacent to TP (second TP chimney),
EVT	00/07/26	10:13:01.0	DLG	492712.1	5310705.3	Unknown	2183.785	13.1	127.486°	VID_GRAB,staining on structure
EVT	00/07/26	10:13:25.0	DLG	492710.5	5310703.2	Unknown	2180.862	13.7	118.910°	VID_GRAB,complex smoker on TP
EVT	00/07/26	10:13:38.0	DLG	492711.3	5310703.0	Unknown	2180.291	15.4	118.453°	VID_GRAB,smoking
EVT	00/07/26	10:16:44.0	DLG	492711.1	5310703.1	Unknown	2179.190	16.4	132.523°	VID_GRAB,marked on map as 29
EVT	00/07/26	10:19:43.0	DLG	492710.4	5310703.0	Unknown	2179.958	16.2	130.839°	VID_GRAB,"looking at southeast tower of TP (actively smoking), northeast tower behind our current position (TP=twin peaks????)",
EVT	00/07/26	10:22:13.0	DLG	492710.9	5310706.5	Unknown	2174.351	10.3	110.258°	preparing to move back to Hulk to set up for diffuse flow sonar imaging,,
EVT	00/07/26	10:23:41.0	DLG	492710.2	5310713.3	Unknown	2173.905	24.8	8.360°	JP Tully moved off 5 miles to southeast (confirmed by bridge), clear to go ahead,,
EVT	00/07/26	10:39:14.0	DLG	492724.4	5310762.5	Unknown	2194.569	5.2	4.922°	moving towards Hulk,,
EVT	00/07/26	10:40:54.0	DLG	492732.9	5310775.0	Unknown	2196.432	3.7	275.826°	arrived at diffuse flow indicator on map, trying to find the diffuse flow to which it refers,,

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EVT	00/07/26	10:42:01.0	DLG	492724.6	5310771.5	Unknown	2198.019	2.2	202.258°	observing signs of diffuse flow,,
EVT	00/07/26	10:47:32.0	DLG	492725.6	5310769.2	Unknown	2197.214	3.2	255.395°	tape change,,
EVT	00/07/26	10:52:45.0	DLG	492725.6	5310769.1	Unknown	2198.951	1.3	238.365°	VID_GRAB,diffuse flow spotted,
EVT	00/07/26	11:07:30.0	DLG	492744.3	5310768.1	Unknown	2198.130	3.0	84.188°	looking at Hulk,,
EVT	00/07/26	11:08:59.0	DLG	492746.3	5310770.9	Unknown	2198.212	3.9	85.697°	VID_GRAB,some kind of experiments ,
EVT	00/07/26	11:11:17.0	DLG	492746.3	5310770.9	Unknown	2198.232	3.9	85.808°	VID_GRAB,instruments on Hulk,
EVT	00/07/26	11:14:29.0	DLG	492746.3	5310770.9	Unknown	2197.626	4.8	86.699°	VID_GRAB,West part of Hulk- near the base,
EVT	00/07/26	11:16:16.0	DLG	492746.3	5310770.9	Unknown	2196.586	5.4	87.122°	VID_GRAB,Hulk,
EVT	00/07/26	11:17:00.0	DLG	492746.3	5310770.9	Unknown	2195.497	6.6	85.715°	there's some diffuse flow coming out of it,,
EVT	00/07/26	11:17:52.0	DLG	492746.3	5310770.9	Unknown	2194.524	7.7	86.764°	Site-Hulk,heading 093 (East) altitude about 7m,
EVT	00/07/26	11:18:29.0	DLG	492753.0	5310764.6	Unknown	2193.441	8.7	86.455°	Site-Hulk,VID_GRAB,Black smoker on Hulk
EVT	00/07/26	11:18:51.0	DLG	492753.1	5310765.9	Unknown	2193.340	8.8	85.289°	Site-Hulk,going up to find the top,
EVT	00/07/26	11:19:29.0	DLG	492752.8	5310764.4	Unknown	2193.189	8.9	85.221°	Site-Hulk,looking to find the top with the scan,
EVT	00/07/26	11:19:50.0	DLG	492753.5	5310764.4	Unknown	2192.184	9.9	87.045°	Site-Hulk,still going up,
EVT	00/07/26	11:21:05.0	DLG	492752.9	5310763.8	Unknown	2188.595	13.7	86.378°	Site-Hulk,VID_GRAB,X marker
EVT	00/07/26	11:22:58.0	DLG	492754.0	5310762.1	Unknown	2186.480	9.3	77.488°	Site-Hulk,VID_GRAB,a lot of smoke coming out of Hulk
EVT	00/07/26	11:23:21.0	DLG	492753.8	5310761.6	Unknown	2185.828	15.0	77.045°	Site-Hulk,about to the top altitude 15m,
EVT	00/07/26	11:25:18.0	DLG	492749.3	5310762.5	Unknown	2190.483	10.7	78.056°	Site-Hulk,going down,
EVT	00/07/26	11:30:56.0	DLG	492768.4	5310770.4	Unknown	2201.148	4.2	120.142°	Site-Hulk,stable at about 5 m alt,
EVT	00/07/26	11:36:37.0	DLG	492768.6	5310779.6	Unknown	2198.735	7.3	265.914°	Site-Hulk,trying to figure out where we are,
EVT	00/07/26	11:37:59.0	DLG	492765.9	5310779.2	Unknown	2199.820	6.0	136.796°	Site-Hulk,maybe nav's mixed up,
EVT	00/07/26	11:38:22.0	DLG	492767.0	5310777.6	Unknown	2200.014	7.6	135.012°	Site-Hulk,we're seeing the same target than before,
EVT	00/07/26	11:39:08.0	DLG	492768.1	5310780.6	Unknown	2200.640	5.5	87.653°	Site-Hulk,VID_GRAB,target on Hulk
EVT	00/07/26	11:40:57.0	DLG	492763.7	5310782.0	Unknown	2203.671	2.6	265.082°	Site-Hulk,VID_GRAB,Crab
EVT	00/07/26	11:42:41.0	DLG	492759.2	5310781.7	Unknown	2201.790	2.1	255.275°	Site-Hulk,VID_GRAB,Rattail fish
EVT	00/07/26	11:47:08.0	DLG	492753.5	5310782.4	Unknown	2201.814	1.4	211.247°	Site-Hulk,VID_GRAB,octopus on Hulk
EVT	00/07/26	11:49:59.0	DLG	492745.4	5310794.6	Unknown	2201.654	1.5	139.978°	Site-Hulk,North of Hulk looking SSE,
EVT	00/07/26	11:51:53.0	DLG	492747.7	5310786.0	Unknown	2196.546	6.5	139.349°	Site-Hulk,moving west ,
EVT	00/07/26	11:57:37.0	DLG	492751.0	5310784.7	Unknown	2201.217	3.5	340.806°	Site-Hulk,moving west ,
EVT	00/07/26	11:58:11.0	DLG	492751.0	5310784.7	Unknown	2200.840	3.6	236.092°	Site-Hulk,we're NW of Hulk doing a watching survey,
EVT	00/07/26	11:59:47.0	DLG	492745.1	5310807.8	Unknown	2201.060	3.6	224.265°	Site-Hulk,loosing cameras,
EVT	00/07/26	12:00:05.0	DLG	492745.1	5310807.8	Unknown	2201.040	3.7	223.508°	Site-Hulk,got back,
EVT	00/07/26	12:03:52.0	DLG	492746.3	5310800.4	Unknown	2199.605	6.3	212.802°	Site-Hulk,trying to find a place to sit down looking south,
EVT	00/07/26	12:06:34.0	DLG	492743.3	5310793.8	Unknown	2195.725	4.9	183.273°	Site-Hulk,going down,
EVT	00/07/26	12:10:01.0	DLG	492745.1	5310789.1	Unknown	2200.099	0.9	177.725°	Site-Hulk,sitting down,
EVT	00/07/26	12:11:51.0	DLG	492743.4	5310790.5	Unknown	2199.666	1.3	157.594°	Site-Hulk,lifting up,
EVT	00/07/26	12:13:59.0	DLG	492744.3	5310788.5	Unknown	2200.118	0.8	164.678°	Site-Hulk,siting down again,
EVT	00/07/26	12:14:16.0	DLG	492744.3	5310788.5	Unknown	2200.118	0.7	164.449°	Site-Hulk,looking south (168),
EVT	00/07/26	12:16:27.0	DLG	492742.9	5310789.2	Unknown	2200.128	0.9	163.856°	Site-Hulk,VID_GRAB,crack to our right

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										right
EVT	00/07/26	12:18:31.0	DLG	492743.9	5310788.9	Unknown	2200.123	30.0	163.196°	Site-Hulk,we,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.157	2.0	163.136°	Site-Hulk,we're north of ,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	2.0	163.178°	Site-Hulk,,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	2.0	163.178°	Site-Hulk,,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	2.0	163.178°	Site-Hulk,,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	2.0	163.178°	Site-Hulk,,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	2.0	163.178°	Site-Hulk,,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	2.0	163.177°	Site-Hulk,,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	2.0	163.177°	Site-Hulk,,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	0.9	163.177°	Site-Hulk,,
EVT	00/07/26	12:18:51.0	DLG	492743.5	5310788.6	Unknown	2200.097	0.9	163.177°	Site-Hulk,,
EVT	00/07/26	12:18:52.0	DLG	492743.5	5310788.6	Unknown	2200.097	0.9	163.177°	Site-Hulk,,
EVT	00/07/26	12:18:52.0	DLG	492743.5	5310788.6	Unknown	2200.097	0.9	163.177°	Site-Hulk,,
EVT	00/07/26	12:18:52.0	DLG	492743.5	5310788.6	Unknown	2200.097	0.9	163.177°	Site-Hulk,,
EVT	00/07/26	12:20:24.0	DLG	492743.0	5310788.8	Unknown	2200.199	30.0	162.171°	Site-Hulk,that was north of Hulk ,
EVT	00/07/26	12:22:43.0	DLG	492742.4	5310789.2	Unknown	2200.174	30.0	161.905°	Site-Hulk,setting sonar,
EVT	00/07/26	12:23:23.0	DLG	492744.8	5310788.8	Unknown	2200.157	0.9	161.587°	Site-Hulk,VID_GRAB,Same crack
EVT	00/07/26	12:32:16.0	DLG	492743.3	5310787.6	Unknown	2200.273	1.8	157.228°	Site-Hulk,bouncing a little bit,
EVT	00/07/26	12:32:27.0	DLG	492743.3	5310787.6	Unknown	2200.193	1.7	157.699°	Site-Hulk,getting sonar up,,
EVT	00/07/26	12:32:33.0	DLG	492743.3	5310787.6	Unknown	2199.953	0.8	158.362°	Site-Hulk,lifting up,,
EVT	00/07/26	12:32:49.0	DLG	492744.1	5310788.1	Unknown	2199.420	30.0	152.533°	Site-Hulk,moving a bit ahead,,
EVT	00/07/26	12:34:22.0	DLG	492741.3	5310783.3	Unknown	2199.776	0.9	122.699°	Site-Hulk,VID_GRAB,siting place,
EVT	00/07/26	12:35:50.0	DLG	492740.9	5310783.8	Unknown	2199.783	0.9	120.390°	Site-Hulk,siting on the rock that was ahead of us,,
EVT	00/07/26	12:35:56.0	DLG	492740.9	5310783.8	Unknown	2199.705	0.9	120.372°	Site-Hulk,setting sonar,,
EVT	00/07/26	12:36:50.0	DLG	492740.4	5310783.4	Unknown	2199.705	0.9	119.902°	Site-Hulk,we're just north of Hulk,,
EVT	00/07/26	12:47:04.0	DLG	492739.8	5310783.4	Unknown	2199.851	0.9	109.387°	Site-Hulk,, DIFFUSE,start recording 00G26124
EVT	00/07/26	12:51:38.0	DLG	492739.9	5310784.2	Unknown	2199.881	0.9	107.501°	Site-Hulk,stop recording,,
EVT	00/07/26	12:52:10.0	DLG	492741.9	5310783.7	Unknown	2199.900	0.9	106.810°	Site-Hulk,VID_GRAB,snail,
EVT	00/07/26	12:54:02.0	DLG	492739.7	5310782.8	Unknown	2199.896	0.9	105.836°	Site-Hulk,setting,,
EVT	00/07/26	12:54:29.0	DLG	492738.9	5310783.6	Unknown	2199.941	0.9	105.424°	Site-Hulk,, DIFFUSE,start recording 00G26125
EVT	00/07/26	12:56:18.0	DLG	492740.6	5310782.8	Unknown	2199.910	1.0	104.258°	Site-Hulk,VID_GRAB,another snail,
EVT	00/07/26	12:56:49.0	DLG	492739.4	5310783.8	Unknown	2199.986	0.9	104.363°	Site-Hulk,stop recording,,
EVT	00/07/26	12:58:24.0	DLG	492742.0	5310786.5	Unknown	2198.647	1.9	2.849°	Site-Hulk,lifting up,,
EVT	00/07/26	12:58:49.0	DLG	492744.9	5310787.6	Unknown	2198.647	2.3	4.221°	Site-Hulk, moving north,,
EVT	00/07/26	13:02:29.0	DLG	492743.3	5310796.6	Unknown	2196.509	4.8	179.765°	Site-Hulk,about 5m from hulk,,
EVT	00/07/26	13:02:44.0	DLG	492743.4	5310796.9	Unknown	2196.489	4.9	179.477°	Site-Hulk,stable at about 5m altitude,,
EVT	00/07/26	13:05:17.0	DLG	492743.2	5310796.4	Unknown	2196.502	4.8	179.321°	Site-Hulk,we're not 5 m from hulk-a bit further,,
EVT	00/07/26	13:09:25.0	DLG	492744.7	5310796.3	Unknown	2196.460	4.9	159.455°	Site-Hulk,we're looking at a kind of fault on the sonar,,
EVT	00/07/26	13:10:33.0	DLG	492743.9	5310796.6	Unknown	2196.466	4.9	159.666°	Site-Hulk,, DIFFUSE,start recording 00G26126

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	13:14:06.0	DLG	492744.8	5310795.9	Unknown	2196.429	4.9	160.119°	Site-Hulk,stop recording,,
EVT	00/07/26	13:17:49.0	DLG	492743.9	5310796.2	Unknown	2196.414	5.0	159.468°	Site-Hulk,, DIFFUSE,start recording 00G26127
EVT	00/07/26	13:18:17.0	DLG	492744.7	5310796.5	Unknown	2196.409	5.0	159.777°	Site-Hulk,hovering heading 161,,
EVT	00/07/26	13:20:35.0	DLG	492743.8	5310796.2	Unknown	2196.351	5.1	159.493°	Site-Hulk,stop recording,,
EVT	00/07/26	13:26:33.0	DLG	492744.1	5310796.4	Unknown	2196.377	5.0	159.442°	Site-Hulk,setting sonar,,
EVT	00/07/26	13:27:08.0	DLG	492743.0	5310797.5	Unknown	2196.484	5.0	158.985°	Site-Hulk,still stable north of Hulk altitude 5m,,
EVT	00/07/26	13:35:07.0	DLG	492746.2	5310804.7	Unknown	2196.356	3.2	359.876°	Site-Hulk,moving 10m north,,
EVT	00/07/26	13:38:47.0	DLG	492749.1	5310812.6	Unknown	2196.359	1.6	359.343°	Site-Hulk,VID_GRAB,structure north of Hulk,
EVT	00/07/26	13:42:06.0	DLG	492755.5	5310816.4	Unknown	2195.605	3.9	174.939°	Site-Hulk,turning south,,
EVT	00/07/26	13:44:53.0	DLG	492750.9	5310817.3	Unknown	2196.326	1.5	148.463°	Site-Hulk,VID_GRAB,structure north of Hulk looking south,
EVT	00/07/26	13:45:05.0	DLG	492751.3	5310818.5	Unknown	2196.335	1.7	145.526°	Site-Hulk,not enough room to sit on it,,
EVT	00/07/26	13:48:53.0	DLG	492750.3	5310813.4	Unknown	2197.226	0.8	142.661°	Site-Hulk,sitting on a structure looking SE about 15 m of Hulk,,
EVT	00/07/26	13:52:11.0	DLG	492752.5	5310813.4	Unknown	2197.295	0.8	142.874°	Site-Hulk,, DIFFUSE,start recording 00G26128 looking towards Hulk
EVT	00/07/26	13:54:04.0	DLG	492750.4	5310814.9	Unknown	2197.177	0.7	142.180°	Site-Hulk,stop recording,,
EVT	00/07/26	13:54:34.0	DLG	492751.6	5310814.8	Unknown	2197.272	0.7	142.619°	Site-Hulk,setting sonar to a 30 range,,
EVT	00/07/26	13:54:59.0	DLG	492751.0	5310814.9	Unknown	2197.239	0.7	142.387°	Site-Hulk,, DIFFUSE,start recording 00G26129
EVT	00/07/26	13:55:56.0	DLG	492752.5	5310814.0	Unknown	2197.326	0.7	142.544°	Site-Hulk,VID_GRAB,fish just in front of sonar,
EVT	00/07/26	13:56:15.0	DLG	492751.3	5310814.3	Unknown	2197.286	0.7	142.137°	Site-Hulk,VID_GRAB,bad fish,
EVT	00/07/26	13:56:43.0	DLG	492751.7	5310814.3	Unknown	2197.194	30.0	144.052°	Site-Hulk,stop recording,,
EVT	00/07/26	13:58:21.0	DLG	492751.4	5310814.2	Unknown	2194.551	3.3	146.259°	Site-Hulk,moving SE,,
EVT	00/07/26	13:59:07.0	DLG	492751.8	5310814.4	Unknown	2192.383	5.7	175.364°	Site-Hulk,noy moving yet,,
EVT	00/07/26	13:59:18.0	DLG	492751.0	5310815.5	Unknown	2192.447	5.6	176.079°	Site-Hulk,rotating towards south,,
EVT	00/07/26	13:59:31.0	DLG	492751.0	5310815.5	Unknown	2192.520	5.7	176.743°	Site-Hulk,altitude about 6m,,
EVT	00/07/26	14:00:17.0	DLG	492751.9	5310814.9	Unknown	2192.562	5.5	156.850°	Site-Hulk,heading's now 160 ,,
EVT	00/07/26	14:01:24.0	DLG	492751.5	5310814.6	Unknown	2192.469	5.4	156.032°	Site-Hulk,moving SSE at 0.2 joy gain ,,
EVT	00/07/26	14:01:40.0	DLG	492751.9	5310814.6	Unknown	2192.558	5.2	156.379°	Site-Hulk,, DIFFUSE,start recording 00G26130
EVT	00/07/26	14:03:49.0	DLG	492752.7	5310809.2	Unknown	2192.438	8.2	156.472°	Site-Hulk,keeping constant depth,,
EVT	00/07/26	14:08:17.0	DLG	492755.2	5310798.2	Unknown	2192.167	12.4	156.365°	Site-Hulk,in some smoke,,
EVT	00/07/26	14:08:30.0	DLG	492754.1	5310797.6	Unknown	2192.301	12.4	158.588°	Site-Hulk,rotating to 180,,
EVT	00/07/26	14:12:45.0	DLG	492756.6	5310787.3	Unknown	2192.349	11.9	176.757°	Site-Hulk,altitude about 12m,,
EVT	00/07/26	14:18:38.0	DLG	492755.9	5310776.9	Unknown	2192.293	12.0	176.721°	Site-Hulk,Hulk's to our left,,
EVT	00/07/26	14:20:31.0	DLG	492755.0	5310773.5	Unknown	2192.300	11.9	177.367°	Site-Hulk,done 40m,,
EVT	00/07/26	14:21:10.0	DLG	492755.7	5310773.1	Unknown	2192.460	11.2	177.359°	Site-Hulk,stop recording,,
EVT	00/07/26	14:21:45.0	DLG	492756.4	5310772.0	Unknown	2192.593	11.0	124.960°	Site-Hulk,turning around 180,,
EVT	00/07/26	14:23:15.0	DLG	492755.6	5310773.6	Unknown	2191.922	11.6	358.763°	Site-Hulk,going up to 20m latitude,,
EVT	00/07/26	14:24:31.0	DLG	492756.2	5310773.9	Unknown	2188.006	15.4	0.072°	Site-Hulk,setting sonar to look down for bathy,,
EVT	00/07/26	14:25:59.0	DLG	492757.8	5310773.3	Unknown	2184.193	19.2	357.543°	Site-Hulk,stopped at 29m altitude,,
EVT	00/07/26	14:26:36.0	DLG	492756.9	5310773.4	Unknown	2184.104	19.1	356.903°	Site-Hulk,moving north heading 358 at a speed of 0.2 joy gain,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	14:28:20.0	DLG	492757.7	5310778.7	Unknown	2184.056	19.5	357.907°	Site-Hulk,, DIFFUSE,start recording 00G26131
EVT	00/07/26	14:28:48.0	DLG	492757.9	5310779.4	Unknown	2183.993	19.7	357.163°	Site-Hulk,00G26131 was started earlier than noted,,
EVT	00/07/26	14:40:56.0	DLG	492767.9	5310811.9	Unknown	2187.278	19.4	307.697°	Site-Hulk,stop recording,,
EVT	00/07/26	14:43:50.0	DLG	492753.3	5310820.3	Unknown	2187.389	11.5	186.641°	Site-Hulk,"start recording, 00G26132",,,
EVT	00/07/26	14:48:51.0	DLG	492752.6	5310816.2	Unknown	2187.393	10.4	179.884°	Site-Hulk,stop recording exchange tape 11 to 12,,
EVT	00/07/26	14:49:10.0	DLG	492752.6	5310815.2	Unknown	2187.314	10.7	179.872°	Site-Hulk,start recording
EVT	00/07/26	14:49:44.0	DLG	492752.6	5310813.8	Unknown	2187.136	10.6	179.374°	Site-Hulk,file name 00G1323
EVT	00/07/26	14:52:59.0	DLG	492750.4	5310809.3	Unknown	2187.382	12.2	179.618°	Site-Hulk,change of logger..shashank
EVT	00/07/26	15:09:20.0	DLG	492743.9	5310772.7	Unknown	2187.795	13.3	179.307°	Site-Hulk,cruising along..
EVT	00/07/26	15:15:51.0	DLG	492740.9	5310759.9	Unknown	2187.701	13.1	179.423°	Site-Hulk,stop recording
EVT	00/07/26	15:16:34.0	DLG	492741.6	5310759.7	Unknown	2187.588	13.2	180.171°	Site-Hulk,valley in floor.
EVT	00/07/26	15:27:17.0	DLG	492710.7	5310742.2	Unknown	2182.602	18.0	224.077°	Site-Hulk,doing some more survey..nothing much to see on the screen
EVT	00/07/26	15:30:23.0	DLG	492694.5	5310732.2	Unknown	2182.530	17.3	225.819°	Site-Hulk,started recording bathy data while in transit
EVT	00/07/26	15:31:24.0	DLG	492688.6	5310729.0	Unknown	2182.439	17.5	225.022°	from crypto to grotto...
EVT	00/07/26	15:31:57.0	DLG	492686.5	5310728.2	Unknown	2182.505	17.5	224.987°	switched files ,
EVT	00/07/26	15:32:41.0	DLG	492680.9	5310724.7	Unknown	2182.386	17.8	225.863°	...(from manual to burst mode),
EVT	00/07/26	15:42:50.0	DLG	492605.4	5310673.6	Unknown	2181.263	4.2	103.916°	have reached what looks like the wall.,
EVT	00/07/26	15:43:38.0	DLG	492603.4	5310670.6	Unknown	2181.616	2.8	71.053°	stopped recording of bathy data,
EVT	00/07/26	15:52:11.0	DLG	492605.0	5310670.3	Unknown	2183.053	6.2	334.888°	crab,
EVT	00/07/26	15:56:31.0	DLG	492637.4	5310672.0	Unknown	2186.122	7.9	103.386°	VID_GRAB,
EVT	00/07/26	15:56:56.0	DLG	492637.4	5310672.0	Unknown	2185.623	8.1	106.497°	VID_GRAB,smoker
EVT	00/07/26	15:57:17.0	DLG	492636.5	5310673.5	Unknown	2185.516	8.6	123.662°	close to grotto,,,
EVT	00/07/26	16:05:35.0	DLG	492625.2	5310681.5	Unknown	2187.913	1.0	58.564°	VID_GRAB,,,
EVT	00/07/26	16:13:26.0	DLG	492628.3	5310678.8	Unknown	2188.567	1.1	63.971°	shimmering water,,,
EVT	00/07/26	16:15:16.0	DLG	492627.8	5310678.8	Unknown	2188.599	1.1	63.550°	VID_GRAB,,,
EVT	00/07/26	16:24:51.0	DLG	492633.5	5310680.3	Unknown	2190.951	2.5	207.336°	VID_GRAB,, DIFFUSE,diffuse flow
EVT	00/07/26	16:25:04.0	DLG	492632.1	5310679.8	Unknown	2190.851	2.5	207.231°	VID_GRAB,instrument,,
EVT	00/07/26	17:00:58.0	DLG	492612.9	5310655.1	Unknown	2186.841	2.2	21.800°	perch found.....,
EVT	00/07/26	17:01:19.0	DLG	492614.9	5310653.5	Unknown	2186.002	4.0	26.331°	aim is to do a 24 hour time series,,,
EVT	00/07/26	17:01:47.0	DLG	492613.6	5310654.3	Unknown	2185.790	2.2	36.616°	search on for new perch,,,
EVT	00/07/26	17:08:17.0	DLG	492612.5	5310656.0	Unknown	2186.335	0.8	27.869°	one more perch found,,,
EVT	00/07/26	17:25:38.0	DLG	492607.7	5310653.7	Unknown	2187.930	0.7	29.541°	jason moving around on perch...wonderinmg if the rotator moving has anything to do with jason turning around,,,
EVT	00/07/26	17:32:54.0	DLG	492615.9	5310655.6	Unknown	2187.868	1.0	38.192°	more changes to perch...."this is our new home".....,
EVT	00/07/26	18:06:45.0	DLG	492611.4	5310653.8	Unknown	2187.721	1.0	33.270°	VID_GRAB,perch for 24hour study,,
EVT	00/07/26	18:25:41.0	DLG	492614.3	5310654.5	Unknown	2187.662	1.0	30.533°	video is pretty much constant..like someone sadi .."an andy warhol movie":),,,
EVT	00/07/26	18:48:21.0	DLG	492614.4	5310654.4	Unknown	2187.550	1.0	28.873°	grotto,shift change,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	18:56:48.0	DLG	492610.3	5310655.2	Unknown	2187.530	1.0	19.845°	grotto, restarting SM2000 software,,
EVT	00/07/26	19:03:24.0	DLG	492612.5	5310653.9	Unknown	2187.497	1.0	13.815°	grotto, start recording imaging100G26136,,
EVT	00/07/26	19:16:04.0	DLG	492604.5	5310652.4	Unknown	2187.452	1.0	4.197°	grotto, stop recording,,
EVT	00/07/26	19:19:52.0	DLG	492611.2	5310654.5	Unknown	2187.465	1.0	3.023°	grotto, setting up for next scan,,
EVT	00/07/26	19:22:59.0	DLG	492610.1	5310654.3	Unknown	2187.392	1.0	1.645°	grotto,, PLUME, start recording P3 00G26137
EVT	00/07/26	19:35:30.0	DLG	492611.1	5310654.4	Unknown	2187.448	1.0	36.498°	grotto, stop recording,,
EVT	00/07/26	19:43:08.0	DLG	492607.4	5310653.9	Unknown	2187.281	1.0	32.607°	grotto,, PLUME, start recording P5 00G26138
EVT	00/07/26	19:48:14.0	DLG	492602.8	5310653.7	Unknown	2187.379	1.0	30.341°	grotto, stop recording,,
EVT	00/07/26	19:52:31.0	DLG	492609.6	5310654.8	Unknown	2187.266	1.0	29.805°	grotto,, DIFFUSE, start recording D3 00G26139
EVT	00/07/26	19:55:27.0	DLG	492609.6	5310654.8	Unknown	2187.281	1.0	29.885°	grotto, stop recording,,
EVT	00/07/26	19:57:29.0	DLG	492610.2	5310655.3	Unknown	2187.322	1.0	29.451°	grotto, recalibrating,,
EVT	00/07/26	20:03:24.0	DLG	492611.8	5310655.2	Unknown	2187.243	1.0	28.420°	grotto,, PLUME, start recording P2 00G26140
EVT	00/07/26	20:16:42.0	DLG	492612.8	5310654.6	Unknown	2187.252	1.0	23.765°	grotto, stopped recording video,,
EVT	00/07/26	20:19:48.0	DLG	492603.7	5310658.9	Unknown	2187.241	1.0	38.272°	grotto, restarted video recording,,
EVT	00/07/26	20:21:34.0	DLG	492607.4	5310654.4	Unknown	2187.202	1.0	37.270°	grotto, stopped recording sonar,,
EVT	00/07/26	20:24:50.0	DLG	492608.5	5310655.7	Unknown	2187.164	1.0	36.698°	grotto,, PLUME, start recording P3 00G26141
EVT	00/07/26	20:36:51.0	DLG	492613.0	5310655.7	Unknown	2187.235	1.0	35.129°	grotto, start recording,,
EVT	00/07/26	20:38:19.0	DLG	492605.4	5310654.5	Unknown	2187.216	1.0	34.643°	grotto, "correction, last should read STOP recording",,
EVT	00/07/26	20:43:05.0	DLG	492616.8	5310656.4	Unknown	2187.156	1.0	32.549°	grotto,, PLUME, start recording P5 00G26142
EVT	00/07/26	20:48:10.0	DLG	492605.3	5310654.8	Unknown	2187.214	1.0	30.790°	grotto, stop recording,,
EVT	00/07/26	20:51:26.0	DLG	492609.0	5310653.8	Unknown	2187.188	1.0	28.900°	grotto,, DIFFUSE, start recording D3 00G26143
EVT	00/07/26	20:56:26.0	DLG	492604.3	5310653.9	Unknown	2187.188	1.0	27.684°	grotto, stop recording,,
EVT	00/07/26	21:03:24.0	DLG	492610.3	5310654.3	Unknown	2187.148	1.0	25.408°	grotto,, PLUME, start recording I1 00G26144
EVT	00/07/26	21:06:12.0	DLG	492609.1	5310653.1	Unknown	2187.075	1.0	25.165°	grotto, observed plume from Grotto on sonar display,,
EVT	00/07/26	21:18:25.0	DLG	492615.0	5310655.2	Unknown	2187.082	1.0	22.156°	grotto, stop recording,,
EVT	00/07/26	21:24:51.0	DLG	492608.7	5310654.2	Unknown	2187.128	1.0	20.263°	grotto,, PLUME, start recording C1 00G26145
EVT	00/07/26	21:36:51.0	DLG	492614.9	5310654.6	Unknown	2187.089	1.0	17.313°	grotto, stop recording,,
EVT	00/07/26	21:43:29.0	DLG	492613.4	5310654.6	Unknown	2187.102	1.0	16.110°	grotto,, PLUME, start recording S1 00G26146
EVT	00/07/26	21:48:31.0	DLG	492610.1	5310653.1	Unknown	2187.158	1.0	15.920°	grotto, stop recording,,
EVT	00/07/26	21:51:33.0	DLG	492615.1	5310654.4	Unknown	2187.191	1.0	15.041°	grotto,, DIFFUSE, start recording D3 00G26147
EVT	00/07/26	21:56:47.0	DLG	492611.6	5310655.6	Unknown	2187.111	1.0	13.804°	grotto, stop recording,,
EVT	00/07/26	22:03:36.0	DLG	492607.2	5310653.5	Unknown	2187.140	1.0	39.583°	grotto,, PLUME, start recording I1 00G26148
EVT	00/07/26	22:10:35.0	DLG	492606.0	5310653.4	Unknown	2187.094	1.0	38.202°	grotto, change video tapes,,
EVT	00/07/26	22:13:52.0	DLG	492611.6	5310653.2	Unknown	2187.100	1.0	38.025°	grotto, VID_GRAB, fish came into view in front of JASON while recording I1,
EVT	00/07/26	22:14:27.0	DLG	492611.6	5310653.2	Unknown	2187.067	1.0	37.721°	grotto, VID_GRAB, rat tail swimming leisurely while recording I1,
EVT	00/07/26	22:15:28.0	DLG	492611.2	5310654.3	Unknown	2187.114	1.0	37.250°	grotto, fish moving out of the field of view,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/26	22:16:12.0	DLG	492610.7	5310654.0	Unknown	2187.114	1.0	37.074°	grotto,fish moved out of the field of view (off to the left),,
EVT	00/07/26	22:18:25.0	DLG	492606.7	5310654.2	Unknown	2187.143	1.0	37.155°	grotto,stop recording l1,,
EVT	00/07/26	22:24:51.0	DLG	492615.6	5310654.2	Unknown	2187.123	1.0	35.239°	grotto,, PLUME,start recording C1 00G149
EVT	00/07/26	22:38:21.0	DLG	492606.6	5310653.9	Unknown	2187.226	1.0	32.876°	grotto,stop recording C1,,
EVT	00/07/26	22:43:06.0	DLG	492616.3	5310654.8	Unknown	2187.220	1.0	32.498°	grotto,, PLUME,start recording S1 00G26150
EVT	00/07/26	22:46:38.0	DLG	492607.2	5310655.8	Unknown	2187.280	1.0	31.414°	grotto,,
EVT	00/07/26	22:51:33.0	DLG	492605.5	5310653.0	Unknown	2187.207	1.0	30.127°	grotto,, DIFFUSE, start recording D6 00G26151
EVT	00/07/26	22:56:34.0	DLG	492605.2	5310652.6	Unknown	2187.240	1.0	29.985°	grotto,stop recording,,
EVT	00/07/26	22:58:55.0	DLG	492607.8	5310654.4	Unknown	2187.226	1.0	29.317°	grotto,setting sonar,,
EVT	00/07/26	23:03:20.0	DLG	492610.4	5310653.7	Unknown	2187.269	1.0	28.340°	grotto,, DIFFUSE,start recording 00G26152
EVT	00/07/26	23:17:38.0	DLG	492611.6	5310653.2	Unknown	2187.358	1.0	24.711°	grotto,stop recording,,
EVT	00/07/26	23:18:50.0	DLG	492611.6	5310653.2	Unknown	2187.325	1.0	23.790°	grotto,recalibrating rotator,,
EVT	00/07/26	23:19:28.0	DLG	492611.6	5310653.2	Unknown	2187.312	1.0	23.519°	grotto,VID_GRAB,Crab on Jason,
EVT	00/07/26	23:20:07.0	DLG	492611.6	5310653.2	Unknown	2187.305	1.0	23.357°	grotto,rotator recalibrating,,
EVT	00/07/26	23:24:50.0	DLG	492610.0	5310654.4	Unknown	2187.427	1.0	23.840°	grotto,, DIFFUSE,start recording 00G26153
EVT	00/07/26	23:37:35.0	DLG	492605.7	5310653.0	Unknown	2187.482	1.0	21.724°	grotto,stop recording,,
EVT	00/07/26	23:43:31.0	DLG	492608.9	5310653.9	Unknown	2187.507	1.0	19.415°	grotto,, DIFFUSE,start recording 00G26154
EVT	00/07/26	23:48:18.0	DLG	492609.3	5310653.0	Unknown	2187.520	1.0	18.131°	grotto,stop recording,,
EVT	00/07/26	23:51:33.0	DLG	492611.0	5310653.9	Unknown	2187.553	1.0	17.584°	grotto,, DIFFUSE,start recording 00G26155
EVT	00/07/26	23:58:24.0	DLG	492613.7	5310653.9	Unknown	2187.560	1.0	16.076°	grotto,stop recording was done earlier,,

Event Log VIP 2000 Cruise 7/27/00										
	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	00:04:02	DLG	492603.40	5310654.87	Unknown	2187.586	1	38.987°	grotto,, DIFFUSE,start recording 00G26156
EVT	00/07/27	00:18:36	DLG	492610.87	5310653.20	Unknown	2187.719	1	35.968°	grotto,stop recording,,
EVT	00/07/27	00:24:53	DLG	492608.18	5310653.15	Unknown	2187.693	1	39.446°	grotto,, DIFFUSE,start recording 00G27157
EVT	00/07/27	00:38:46	DLG	492611.87	5310653.53	Unknown	2187.789	1	37.014°	grotto,stopped recording,,
EVT	00/07/27	00:38:52	DLG	492611.87	5310653.53	Unknown	2187.828	1	36.973°	grotto,recalibrating,,
EVT	00/07/27	00:43:00	DLG	492616.94	5310654.15	Unknown	2187.784	1	35.762°	grotto,, PLUME,start recording S1 00G27158
EVT	00/07/27	00:48:01	DLG	492614.76	5310653.35	Unknown	2187.846	1	34.607°	grotto,stop recording,,
EVT	00/07/27	00:51:09	DLG	492607.92	5310652.15	Unknown	2187.846	1	34.850°	grotto,, DIFFUSE,start recording D3 00G27159
EVT	00/07/27	00:52:04	DLG	492607.92	5310652.15	Unknown	2187.853	1	34.706°	grotto,stop recording,,
EVT	00/07/27	00:52:58	DLG	492607.92	5310652.15	Unknown	2187.900	1	34.610°	grotto,, DIFFUSE,start recording D3 00G27160
EVT	00/07/27	00:53:26	DLG	492607.92	5310652.15	Unknown	2187.946	1	34.435°	grotto,stop recording,,
EVT	00/07/27	00:53:44	DLG	492607.65	5310652.79	Unknown	2187.919	1	34.337°	grotto,, DIFFUSE,start recording D3 00G27161
EVT	00/07/27	00:54:10	DLG	492608.16	5310653.37	Unknown	2187.960	1	34.391°	grotto,"files 159 and 160 were setup incorrectly, hence the termination in recording",,
EVT	00/07/27	00:58:04	DLG	492601.69	5310652.18	Unknown	2187.944	1	33.112°	grotto,stop recording,,
EVT	00/07/27	01:02:29	DLG	492613.78	5310653.95	Unknown	2187.966	1	32.508°	grotto,, PLUME,start recording I1 00G27162
EVT	00/07/27	01:15:45	DLG	492605.10	5310652.82	Unknown	2188.106	1	28.165°	grotto,stop recording,,
EVT	00/07/27	01:16:03	DLG	492605.10	5310652.82	Unknown	2188.046	1	28.111°	grotto,recalibrating rotator,,
EVT	00/07/27	01:23:33	DLG	492610.83	5310653.97	Unknown	2188.190	1	26.441°	grotto,, DIFFUSE,start recording 00G27163
EVT	00/07/27	01:36:01	DLG	492611.49	5310654.61	Unknown	2188.199	1	23.321°	grotto,stop recording,,
EVT	00/07/27	01:40:00	DLG	492605.06	5310654.04	Unknown	2188.219	1	22.927°	grotto,, DIFFUSE,start recording 00
EVT	00/07/27	01:40:18	DLG	492605.06	5310654.04	Unknown	2188.259	1	22.829°	grotto,disregard,,
EVT	00/07/27	01:42:59	DLG	492611.66	5310653.81	Unknown	2188.213	1	22.056°	grotto,, DIFFUSE,start recording S1 00G27164
EVT	00/07/27	01:48:03	DLG	492611.22	5310655.04	Unknown	2188.323	1	21.993°	grotto,stop recording,,
EVT	00/07/27	01:50:39	DLG	492607.59	5310653.14	Unknown	2188.350	1	20.642°	grotto,changing Jaz disk ,,
EVT	00/07/27	01:51:26	DLG	492609.36	5310652.80	Unknown	2188.263	1	20.366°	grotto,recalibrating rotator,,
EVT	00/07/27	01:51:45	DLG	492608.07	5310653.52	Unknown	2188.350	1	20.178°	grotto,rebooting SM 2000,,
EVT	00/07/27	01:54:04	DLG	492613.23	5310653.96	Unknown	2188.321	1	19.143°	grotto,recalibrating rotator,,
EVT	00/07/27	01:56:20	DLG	492613.93	5310654.03	Unknown	2188.287	1	19.280°	grotto,, DIFFUSE,start recording 00G27165
EVT	00/07/27	01:59:14	DLG	492611.87	5310654.01	Unknown	2188.281	1	17.786°	grotto,stop recording,,
EVT	00/07/27	02:03:19	DLG	492615.33	5310654.62	Unknown	2188.385	1	16.671°	grotto,, DIFFUSE,start recording 00G27166
EVT	00/07/27	02:15:22	DLG	492615.70	5310654.91	Unknown	2188.394	1	10.046°	grotto,stop recording,,
EVT	00/07/27	02:23:01	DLG	492606.85	5310652.92	Unknown	2188.466	1	6.109°	grotto,, DIFFUSE,start recording 00G27167

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	02:35:20	DLG	492603.45	5310653.38	Unknown	2188.488	1	3.585°	grotto,stop recording,,
EVT	00/07/27	02:36:19	DLG	492609.71	5310653.40	Unknown	2188.573	1	3.626°	grotto,recalibrating rotator,,
EVT	00/07/27	02:43:01	DLG	492606.65	5310652.98	Unknown	2188.631	1	39.208°	grotto,, DIFFUSE,start recording 00G27168
EVT	00/07/27	02:48:01	DLG	492612.33	5310653.84	Unknown	2188.638	1	37.839°	grotto,stop recording,,
EVT	00/07/27	02:54:06	DLG	492611.41	5310654.26	Unknown	2188.605	1	34.866°	grotto,,,
EVT	00/07/27	02:54:24	DLG	492611.41	5310654.26	Unknown	2188.631	1	34.723°	Site-Grotto,,,
EVT	00/07/27	02:56:45	DLG	492611.97	5310653.93	Unknown	2188.558	1	34.275°	Site-Grotto,Stopped recording,,
EVT	00/07/27	03:03:00	DLG	492614.02	5310653.09	Unknown	2188.586	1	31.866°	Site-Grotto,Starting to record.....exactly...now file no 170....,
EVT	00/07/27	03:07:00	DLG	492617.76	5310654.09	Unknown	2188.648	1	39.239°	Site-Grotto,We are going to do a time series recording here. It takes exactly one hour,,
EVT	00/07/27	03:07:08	DLG	492617.76	5310654.09	Unknown	2188.648	1	39.125°	Site-Grotto,Thats a big file!!!!!!,,
EVT	00/07/27	03:07:13	DLG	492617.76	5310654.09	Unknown	2188.667	1	39.045°	Site-Grotto,,,
EVT	00/07/27	03:08:55	DLG	492611.49	5310653.24	Unknown	2188.614	1	38.539°	Site-Grotto,Its a four part thing with each part for 15mins....,
EVT	00/07/27	03:09:01	DLG	492613.09	5310652.94	Unknown	2188.676	1	38.478°	Site-Grotto,thats one cycle,,
EVT	00/07/27	03:18:24	DLG	492615.51	5310652.86	Unknown	2188.723	1	36.202°	Site-Grotto,Stopped recording.....,
EVT	00/07/27	03:24:26	DLG	492617.17	5310653.29	Unknown	2188.689	1	36.007°	Site-Grotto,Starting another recording ..file no.171,,
EVT	00/07/27	03:36:50	DLG	492611.64	5310650.80	Unknown	2188.729	1	38.719°	Site-Grotto,Stopped recording....,
EVT	00/07/27	03:37:12	DLG	492616.02	5310652.15	Unknown	2188.769	1	38.588°	Site-Grotto,Changing some settings for the next recording
EVT	00/07/27	03:37:18	DLG	492616.02	5310652.15	Unknown	2188.769	1	38.591°	Site-Grotto,ready for the next one
EVT	00/07/27	03:38:30	DLG	492616.02	5310652.15	Unknown	2188.783	1	38.153°	Site-Grotto,recalibrating before recording
EVT	00/07/27	03:43:01	DLG	492609.73	5310652.32	Unknown	2188.756	1	36.982°	Site-Grotto,Starting recording....file no.172.
EVT	00/07/27	03:48:37	DLG	492616.37	5310652.37	Unknown	2188.727	1	35.590°	Site-Grotto,Changed tapes
EVT	00/07/27	03:48:45	DLG	492616.37	5310652.37	Unknown	2188.760	1	35.499°	Site-Grotto,
EVT	00/07/27	03:48:53	DLG	492616.37	5310652.37	Unknown	2188.793	1	35.476°	Site-Grotto,Stopped recording
EVT	00/07/27	03:49:03	DLG	492615.73	5310651.82	Unknown	2188.765	1	35.555°	Site-Grotto,Recalibrating the rotator
EVT	00/07/27	03:52:43	DLG	492617.06	5310652.37	Unknown	2188.798	1	39.254°	Site-Grotto,Starting recording...fileno.173..
EVT	00/07/27	04:17:37	DLG	492613.13	5310651.75	Unknown	2188.804	1	39.473°	Site-Grotto,The water looks very still.....
EVT	00/07/27	04:17:56	DLG	492613.13	5310651.75	Unknown	2188.804	1	39.217°	Site-Grotto,even with the rough weather outside.....on top
EVT	00/07/27	04:18:32	DLG	492613.13	5310651.75	Unknown	2188.795	1	38.559°	Site-Grotto,Stopped recording.....
EVT	00/07/27	04:19:37	DLG	492614.98	5310652.07	Unknown	2188.764	1	38.319°	Site-Grotto,Changing settings again.....
EVT	00/07/27	04:19:59	DLG	492612.57	5310652.69	Unknown	2188.778	1	38.362°	Site-Grotto,Recalibrating
EVT	00/07/27	04:24:51	DLG	492612.18	5310651.62	Unknown	2188.751	1	37.678°	Site-Grotto,Starting recording..fileno.175
EVT	00/07/27	04:32:10	DLG	492611.37	5310652.26	Unknown	2188.674	1	35.690°	Site-Grotto,White bacterial fluff (?) appear to be receding from Jason

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	04:32:31	DLG	492611.37	5310652.26	Unknown	2188.720	1	35.824°	Site-Grotto,VID_GRAB
EVT	00/07/27	04:32:43	DLG	492607.01	5310652.50	Unknown	2188.760	1	36.028°	Site-Grotto,funny looking fish
EVT	00/07/27	04:36:51	DLG	492606.76	5310651.34	Unknown	2188.707	1	35.475°	Site-Grotto,Stopped recording....
EVT	00/07/27	04:37:29	DLG	492606.76	5310651.34	Unknown	2188.707	1	35.406°	Site-Grotto,Switching users....I mean the settings on the software
EVT	00/07/27	04:37:36	DLG	492606.76	5310651.34	Unknown	2188.707	1	35.340°	Site-Grotto,Recalibrating
EVT	00/07/27	04:37:40	DLG	492606.76	5310651.34	Unknown	2188.700	1	35.260°	Site-Grotto,S
EVT	00/07/27	04:39:23	DLG	492616.86	5310653.74	Unknown	2188.694	1	34.752°	Site-Grotto,Changing settings....
EVT	00/07/27	04:39:36	DLG	492616.86	5310653.74	Unknown	2188.760	1	34.713°	Site-Grotto,like transit power etc.
EVT	00/07/27	04:39:41	DLG	492617.34	5310653.56	Unknown	2188.660	1	34.676°	Site-Grotto,run
EVT	00/07/27	04:42:17	DLG	492617.34	5310653.56	Unknown	2188.694	1	32.908°	Site-Grotto,Changed angle to -45
EVT	00/07/27	04:43:01	DLG	492612.39	5310653.24	Unknown	2188.707	1	32.707°	Site-Grotto,Recording.....fileno.176
EVT	00/07/27	04:47:39	DLG	492607.30	5310651.52	Unknown	2188.667	1	32.108°	Site-Grotto,The white fluffy particles are moving around Jason....
EVT	00/07/27	04:48:11	DLG	492611.04	5310652.22	Unknown	2188.674	1	32.142°	Site-Grotto,Stopped recording.
EVT	00/07/27	04:48:44	DLG	492609.69	5310652.87	Unknown	2188.647	1	32.043°	Site-Grotto,Recalibrating...
EVT	00/07/27	04:49:14	DLG	492609.69	5310652.87	Unknown	2188.727	1	32.108°	Site-Grotto,done
EVT	00/07/27	04:49:31	DLG	492613.28	5310652.57	Unknown	2188.707	1	32.187°	Site-Grotto,Changing settings on SM2000 software....
EVT	00/07/27	04:49:42	DLG	492612.42	5310653.44	Unknown	2188.723	1	32.154°	Site-Grotto,Changing the angle also
EVT	00/07/27	04:49:48	DLG	492612.42	5310653.44	Unknown	2188.707	1	32.159°	Site-Grotto,getting ready to record
EVT	00/07/27	04:50:30	DLG	492611.75	5310653.01	Unknown	2188.689	1	31.920°	Site-Grotto,apply settings....
EVT	00/07/27	04:51:31	DLG	492611.75	5310653.01	Unknown	2188.667	1	31.933°	Site-Grotto,Starting recording.....fileno.177
EVT	00/07/27	04:56:28	DLG	492614.03	5310654.61	Unknown	2188.636	1	38.481°	Site-Grotto,Stopped recording.
EVT	00/07/27	04:56:50	DLG	492614.03	5310654.61	Unknown	2188.656	1	38.678°	Site-Grotto,Changing settings again..
EVT	00/07/27	04:57:12	DLG	492611.30	5310653.85	Unknown	2188.618	1	38.611°	Site-Grotto,Saw a shrimp
EVT	00/07/27	04:58:09	DLG	492605.80	5310652.55	Unknown	2188.618	1	38.373°	Site-Grotto,Recalibrated
EVT	00/07/27	05:03:21	DLG	492615.42	5310654.31	Unknown	2188.684	1	37.186°	Site-Grotto,"Recording,,,fileno.178. "
EVT	00/07/27	05:18:35	DLG	492611.74	5310653.53	Unknown	2188.671	1	34.597°	Site-Grotto,Stopped recording....
EVT	00/07/27	05:18:42	DLG	492609.67	5310654.06	Unknown	2188.605	1	34.555°	Site-Grotto,Recalibrating
EVT	00/07/27	05:18:43	DLG	492609.67	5310654.06	Unknown	2188.638	1	34.529°	Site-Grotto,again
EVT	00/07/27	05:18:48	DLG	492609.67	5310654.06	Unknown	2188.599	1	34.513°	Site-Grotto,changing settings
EVT	00/07/27	05:19:13	DLG	492614.92	5310653.73	Unknown	2188.586	1	34.415°	Site-Grotto,Switched cameras
EVT	00/07/27	05:20:21	DLG	492612.52	5310654.48	Unknown	2188.569	1	33.464°	Site-Grotto,Starting to record
EVT	00/07/27	05:20:39	DLG	492611.72	5310653.67	Unknown	2188.651	1	33.319°	Site-Grotto,Changing ping interval
EVT	00/07/27	05:20:41	DLG	492611.72	5310653.67	Unknown	2188.586	1	33.292°	Site-Grotto,etc,
EVT	00/07/27	05:24:46	DLG	492608.58	5310653.10	Unknown	2188.605	1	39.682°	Site-Grotto,Recording..fileno.179. ,
EVT	00/07/27	05:43:16	DLG	492607.51	5310653.31	Unknown	2188.520	1	38.146°	Site-Grotto,, Start Rec.
EVT	00/07/27	05:43:31	DLG	492607.51	5310653.31	Unknown	2188.527	1	38.102°	Site-Grotto,fileno. 180,
EVT	00/07/27	05:45:19	DLG	492607.51	5310653.31	Unknown	2188.479	1	37.644°	Site-Grotto,The fluffy things are going to the right this time,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	05:45:28	DLG	492607.51	5310653.31	Unknown	2188.405	1	37.614°	Site-Grotto, strange things...
EVT	00/07/27	05:48:17	DLG	492607.51	5310653.31	Unknown	2188.436	1	36.928°	Site-Grotto,, Stop Rec.
EVT	00/07/27	05:48:59	DLG	492607.51	5310653.31	Unknown	2188.453	1	36.824°	Site-Grotto, Stopped rec abruptly,
EVT	00/07/27	05:49:14	DLG	492607.51	5310653.31	Unknown	2188.474	1	36.908°	Site-Grotto, we may have to move from the place,
EVT	00/07/27	05:49:19	DLG	492607.51	5310653.31	Unknown	2188.400	1	36.960°	Site-Grotto, some ship stuff,
EVT	00/07/27	05:50:31	DLG	492612.53	5310654.97	Unknown	2188.447	1	36.411°	Site-Grotto, Changing settings,
EVT	00/07/27	05:51:29	DLG	492612.53	5310654.97	Unknown	2188.467	1	36.149°	Site-Grotto,, Start Rec.
EVT	00/07/27	05:51:59	DLG	492608.89	5310653.27	Unknown	2188.474	1	35.861°	Site-Grotto, file no..181,
EVT	00/07/27	05:56:33	DLG	492607.21	5310653.48	Unknown	2188.415	1	34.659°	Site-Grotto,, Stop Rec.
EVT	00/07/27	05:57:41	DLG	492607.21	5310653.48	Unknown	2188.443	1	34.802°	Site-Grotto,, Recalibrating
EVT	00/07/27	05:58:31	DLG	492607.21	5310653.48	Unknown	2188.395	1	34.014°	Site-Grotto, Changing mode,
EVT	00/07/27	05:58:34	DLG	492607.21	5310653.48	Unknown	2188.430	1	34.026°	Site-Grotto, and settings,
EVT	00/07/27	05:59:10	DLG	492607.31	5310653.11	Unknown	2188.356	1	33.941°	Site-Grotto, starting to record fileno. 182,
EVT	00/07/27	05:59:14	DLG	492607.31	5310653.11	Unknown	2188.362	1	33.885°	Site-Grotto, lets go,
EVT	00/07/27	05:59:41	DLG	492606.41	5310653.55	Unknown	2188.356	1	33.715°	Site-Grotto, The white fluffy particles seem to be heading towards Jason,
EVT	00/07/27	05:59:57	DLG	492608.84	5310654.35	Unknown	2188.367	1	33.689°	Site-Grotto, and back,
EVT	00/07/27	06:03:22	DLG	492608.63	5310654.47	Unknown	2188.302	1	33.485°	Site-Grotto,, Start Rec.
EVT	00/07/27	06:14:12	DLG	492608.02	5310654.32	Unknown	2188.182	1	32.222°	Site-Grotto, Medea moved to about 20m range and 10 degree azimuth from behind Jason.....,
EVT	00/07/27	06:18:38	DLG	492605.43	5310654.49	Unknown	2188.243	1	31.175°	Site-Grotto,, Stop Rec.
EVT	00/07/27	06:19:21	DLG	492613.96	5310654.65	Unknown	2188.229	1	30.825°	Site-Grotto, Changing jaz drive,
EVT	00/07/27	06:19:37	DLG	492613.96	5310654.65	Unknown	2188.225	1	39.698°	Site-Grotto, initializing the new disk,
EVT	00/07/27	06:19:49	DLG	492613.96	5310654.65	Unknown	2188.178	1	39.509°	Site-Grotto, SM 2000 crashed,
EVT	00/07/27	06:19:55	DLG	492613.96	5310654.65	Unknown	2188.192	1	39.426°	Site-Grotto, restarting it,
EVT	00/07/27	06:21:23	DLG	492613.96	5310654.65	Unknown	2188.165	1	39.027°	Site-Grotto, rebooting complete,
EVT	00/07/27	06:21:36	DLG	492613.96	5310654.65	Unknown	2188.162	1	39.075°	Site-Grotto, setting options,
EVT	00/07/27	06:21:42	DLG	492613.96	5310654.65	Unknown	2188.156	1	39.055°	Site-Grotto, and configuring,
EVT	00/07/27	06:21:48	DLG	492613.96	5310654.65	Unknown	2188.216	1	39.016°	Site-Grotto,, Recalibrating
EVT	00/07/27	06:22:53	DLG	492608.91	5310654.35	Unknown	2188.176	1	38.534°	Site-Grotto, Changing mode,,
EVT	00/07/27	06:23:14	DLG	492608.91	5310654.35	Unknown	2188.156	1	38.515°	Site-Grotto, run,,
EVT	00/07/27	06:23:20	DLG	492608.91	5310654.35	Unknown	2188.182	1	38.586°	Site-Grotto, lets go and record,,
EVT	00/07/27	06:23:20	DLG	492608.91	5310654.35	Unknown	2188.182	1	38.583°	Site-Grotto, now,,
EVT	00/07/27	06:23:26	DLG	492608.91	5310654.35	Unknown	2188.129	1	38.566°	Site-Grotto, next file no.183,,
EVT	00/07/27	06:23:54	DLG	492608.91	5310654.35	Unknown	2188.156	1	38.282°	Site-Grotto,, Start Rec.,
EVT	00/07/27	06:35:17	DLG	492610.11	5310655.20	Unknown	2188.059	1	35.446°	Site-Grotto, The fluffy things are moving towards us.....still,,
EVT	00/07/27	06:36:54	DLG	492607.72	5310653.64	Unknown	2188.021	1	35.461°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	06:37:42	DLG	492607.72	5310653.64	Unknown	2188.021	1	35.295°	Site-Grotto,, Recalibrating,
EVT	00/07/27	06:38:33	DLG	492607.05	5310655.16	Unknown	2188.034	1	35.094°	Site-Grotto, the next fileno is 184,,
EVT	00/07/27	06:38:38	DLG	492607.05	5310655.16	Unknown	2188.101	1	35.189°	Site-Grotto, changing settings,,
EVT	00/07/27	06:38:45	DLG	492607.05	5310655.16	Unknown	2188.054	1	35.257°	Site-Grotto, as usual,,
EVT	00/07/27	06:45:43	DLG	492613.25	5310656.13	Unknown	2187.961	1	38.347°	Site-Grotto,, Start Rec.,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	06:45:51	DLG	492613.25	5310656.13	Unknown	2187.940	1	38.257°	Site-Grotto,at 43:05,,
EVT	00/07/27	06:49:28	DLG	492608.48	5310654.50	Unknown	2187.994	1	37.115°	Site-Grotto,stop recording,,
EVT	00/07/27	06:51:36	DLG	492615.38	5310656.01	Unknown	2187.888	1	38.069°	Site-Grotto,, DIFFUSE,start recording D3 00G27185
EVT	00/07/27	06:57:05	DLG	492615.49	5310654.79	Unknown	2187.874	1	36.393°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	06:57:10	DLG	492615.49	5310654.79	Unknown	2187.901	1	36.247°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	07:03:26	DLG	492605.50	5310655.70	Unknown	2187.827	1	35.437°	Site-Grotto,, PLUME,, Start Rec.,file 186 I1
EVT	00/07/27	07:11:16	DLG	492615.28	5310655.43	Unknown	2187.788	1	33.861°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	07:11:58	DLG	492615.28	5310655.43	Unknown	2187.767	1	33.801°	Site-Grotto,disregard previous,,,
EVT	00/07/27	07:12:21	DLG	492615.28	5310655.43	Unknown	2187.734	1	33.773°	Site-Grotto,, Stop Rec.,problems being experienced with rotator,,
EVT	00/07/27	07:12:44	DLG	492615.28	5310655.43	Unknown	2187.814	1	33.771°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	07:15:33	DLG	492615.28	5310655.43	Unknown	2187.701	1	33.568°	Site-Grotto,, PLUME,, Start Rec.,start I1 00G27187 (started at 07:14:33)
EVT	00/07/27	07:28:05	DLG	492612.10	5310654.24	Unknown	2187.535	1	31.157°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	07:30:07	DLG	492612.10	5310654.24	Unknown	2187.641	1	30.876°	Site-Grotto,, PLUME,, Start Rec.,00G27188 C1
EVT	00/07/27	07:40:50	DLG	492608.74	5310655.38	Unknown	2187.481	1	29.195°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	07:41:50	DLG	492608.74	5310655.38	Unknown	2187.414	1	28.881°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	07:44:00	DLG	492608.34	5310654.03	Unknown	2187.410	1	28.597°	Site-Grotto,, PLUME,, Start Rec.,S1 00G27189
EVT	00/07/27	07:49:02	DLG	492613.24	5310654.44	Unknown	2187.417	1	27.728°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	07:50:40	DLG	492616.18	5310656.29	Unknown	2187.412	1	27.013°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	07:52:11	DLG	492616.18	5310656.29	Unknown	2187.364	1	27.023°	Site-Grotto,, DIFFUSE,, Start Rec.,D3 00G27190
EVT	00/07/27	07:57:12	DLG	492609.75	5310654.73	Unknown	2187.324	1	25.870°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	07:58:54	DLG	492609.75	5310654.73	Unknown	2187.302	1	38.961°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	08:03:25	DLG	492612.24	5310655.04	Unknown	2187.288	1	38.514°	Site-Grotto,, PLUME,, Start Rec.,I1 00G27191
EVT	00/07/27	08:18:25	DLG	492604.54	5310654.50	Unknown	2187.147	1	35.944°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	08:24:52	DLG	492612.90	5310655.79	Unknown	2187.087	1	33.040°	Site-Grotto,, PLUME,, Start Rec.,C1 00G27192
EVT	00/07/27	08:36:51	DLG	492601.71	5310653.21	Unknown	2187.002	1	31.697°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	08:38:42	DLG	492612.25	5310655.48	Unknown	2186.982	1	31.538°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	08:43:06	DLG	492615.42	5310655.15	Unknown	2186.957	1	30.959°	Site-Grotto,, PLUME,, Start Rec.,C1 00G27193
EVT	00/07/27	08:49:58	DLG	492604.59	5310654.15	Unknown	2186.876	1	29.646°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	08:50:31	DLG	492604.59	5310654.15	Unknown	2186.895	1	29.632°	Site-Grotto,, Stop Rec.,stopped recording at 08:48,,
EVT	00/07/27	08:51:36	DLG	492604.68	5310655.46	Unknown	2186.816	1	29.700°	Site-Grotto,, DIFFUSE,, Start Rec.,D3 00G27194
EVT	00/07/27	08:56:43	DLG	492611.26	5310655.13	Unknown	2186.860	1	28.728°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	08:59:42	DLG	492607.15	5310654.71	Unknown	2186.784	1	28.515°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	09:03:25	DLG	492603.78	5310654.62	Unknown	2186.804	1	27.050°	Site-Grotto,, PLUME,, Start Rec.,I1 00G27195

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	09:18:26	DLG	492610.21	5310656.48	Unknown	2186.606	1	23.904°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	09:19:03	DLG	492604.67	5310656.00	Unknown	2186.587	1	23.835°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	09:24:53	DLG	492609.21	5310655.75	Unknown	2186.576	1	22.844°	Site-Grotto,, PLUME,, Start Rec.,C1 00G27196
EVT	00/07/27	09:36:50	DLG	492608.75	5310655.85	Unknown	2186.516	1	37.190°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	09:39:11	DLG	492605.19	5310655.03	Unknown	2186.523	1	37.159°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	09:43:06	DLG	492604.74	5310655.69	Unknown	2186.489	1	36.340°	Site-Grotto,, PLUME,, Start Rec.,S1 00G27197
EVT	00/07/27	09:47:41	DLG	492607.61	5310654.55	Unknown	2186.529	1	35.551°	Site-Grotto,tape change,,,
EVT	00/07/27	09:48:10	DLG	492607.61	5310654.55	Unknown	2186.403	1	35.135°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	09:50:27	DLG	492607.15	5310654.79	Unknown	2186.502	1	34.872°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	09:51:38	DLG	492605.70	5310653.71	Unknown	2186.423	1	35.098°	Site-Grotto,, DIFFUSE,, Start Rec.,D3 00G27198
EVT	00/07/27	09:56:36	DLG	492608.27	5310655.06	Unknown	2186.447	1	34.745°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	09:59:54	DLG	492608.27	5310655.06	Unknown	2186.354	1	35.112°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	10:03:26	DLG	492612.57	5310655.83	Unknown	2186.388	1	35.349°	Site-Grotto,, PLUME,, Start Rec.,I1 00G27199
EVT	00/07/27	10:18:26	DLG	492606.00	5310654.39	Unknown	2186.319	1	33.460°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	10:19:50	DLG	492609.55	5310655.05	Unknown	2186.325	1	33.603°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	10:20:44	DLG	492614.41	5310656.23	Unknown	2186.278	1	33.284°	Site-Grotto,VID_GRAB,onsite imaging Grotto - about 16 hours into the 24 hour time series experiment,,,
EVT	00/07/27	10:24:52	DLG	492614.41	5310656.23	Unknown	2186.307	1	32.756°	Site-Grotto,, PLUME,, Start Rec.,C1 00G27200
EVT	00/07/27	10:25:50	DLG	492614.41	5310656.23	Unknown	2186.281	1	32.600°	Site-Grotto,VID_GRAB,Medea looking down at Jason,,,
EVT	00/07/27	10:35:55	DLG	492603.96	5310654.96	Unknown	2186.248	1	30.374°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	10:38:14	DLG	492610.11	5310655.88	Unknown	2186.290	1	30.326°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	10:48:47	DLG	492604.91	5310656.08	Unknown	2186.310	1	27.949°	Site-Grotto,, PLUME,, Start Rec.,S1 00G27201
EVT	00/07/27	10:48:59	DLG	492604.91	5310656.08	Unknown	2186.256	1	27.826°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	10:51:23	DLG	492597.16	5310655.02	Unknown	2186.276	1	27.743°	Site-Grotto,, Start Rec.,00G27202,,
EVT	00/07/27	10:56:31	DLG	492604.39	5310655.89	Unknown	2186.237	1	26.304°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	11:03:25	DLG	492609.26	5310655.52	Unknown	2186.237	1	25.711°	Site-Grotto,, Start Rec.,00G27203,,
EVT	00/07/27	11:18:09	DLG	492608.88	5310654.90	Unknown	2186.301	1	22.309°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	11:19:06	DLG	492608.26	5310655.65	Unknown	2186.225	1	22.027°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	11:24:18	DLG	492614.11	5310656.54	Unknown	2186.211	1	21.060°	Site-Grotto,, Start Rec.,00G27204,,
EVT	00/07/27	11:37:42	DLG	492601.58	5310655.26	Unknown	2186.179	1	18.760°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	11:43:14	DLG	492499.47	5310637.12	Unknown	2186.177	1	17.734°	Site-Grotto,, Start Rec.,00G27205,,
EVT	00/07/27	11:48:08	DLG	492612.55	5310656.63	Unknown	2186.250	1	17.063°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	11:49:45	DLG	492609.94	5310656.24	Unknown	2186.299	1	16.903°	Site-Grotto,, Recalibrating,rotator,,
EVT	00/07/27	11:51:31	DLG	492613.85	5310656.80	Unknown	2186.253	1	16.558°	Site-Grotto,, Start Rec.,00G27206,,
EVT	00/07/27	11:56:32	DLG	492614.39	5310654.99	Unknown	2186.275	1	15.539°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	11:57:18	DLG	492611.30	5310656.21	Unknown	2186.268	1	15.595°	Site-Grotto,, Recalibrating,,
EVT	00/07/27	11:58:13	DLG	492613.65	5310656.05	Unknown	2186.281	1	15.650°	Site-Grotto,, Recalibrating,rotator

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
										Recalibrating,rotator
EVT	00/07/27	12:02:31	DLG	492608.06	5310657.72	Unknown	2186.281	1	14.365°	Site-Grotto,, Start Rec.,00G27207
EVT	00/07/27	12:15:09	DLG	492613.59	5310657.48	Unknown	2186.364	1	11.895°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	12:23:13	DLG	492610.30	5310656.98	Unknown	2186.353	1	10.406°	Site-Grotto,, Start Rec.,00G27208
EVT	00/07/27	12:35:31	DLG	492605.31	5310658.36	Unknown	2186.439	1	7.976°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	12:43:00	DLG	492609.88	5310658.00	Unknown	2186.418	1	6.725°	Site-Grotto,, Start Rec.,S1 00G27209
EVT	00/07/27	12:48:02	DLG	492611.85	5310657.37	Unknown	2186.495	1	5.769°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	12:51:08	DLG	492612.85	5310656.77	Unknown	2186.501	1	5.183°	Site-Grotto,, Start Rec.,00G272010
EVT	00/07/27	12:56:14	DLG	492610.37	5310656.92	Unknown	2186.552	1	4.652°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	13:09:18	DLG	492610.43	5310656.68	Unknown	2186.598	1	2.128°	Site-Grotto,, Start Rec.,00G27211 a little bit late noticed
EVT	00/07/27	13:18:18	DLG	492610.47	5310656.85	Unknown	2186.700	0.9	0.274°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	13:22:48	DLG	492608.49	5310656.24	Unknown	2186.711	1	359.718°	Site-Grotto,, Start Rec.,00G27212
EVT	00/07/27	13:36:17	DLG	492609.45	5310656.82	Unknown	2186.839	0.9	357.140°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	13:43:04	DLG	492609.03	5310657.48	Unknown	2186.860	1	355.928°	Site-Grotto,, Start Rec.,00G27213
EVT	00/07/27	13:48:06	DLG	492611.17	5310657.41	Unknown	2186.878	1	354.971°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	13:51:26	DLG	492610.92	5310657.39	Unknown	2186.898	1	354.321°	Site-Grotto,, Start Rec.,00G27214
EVT	00/07/27	13:56:31	DLG	492612.55	5310656.90	Unknown	2186.970	1	353.840°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	13:58:41	DLG	492610.62	5310657.40	Unknown	2187.051	1	352.787°	Site-Grotto,, Recalibrating,rotator
EVT	00/07/27	14:03:11	DLG	492612.35	5310657.00	Unknown	2187.015	1	351.902°	Site-Grotto,, Start Rec.,00G27215
EVT	00/07/27	14:17:17	DLG	492611.72	5310657.13	Unknown	2187.115	1	349.234°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	14:17:18	DLG	492611.72	5310657.13	Unknown	2187.055	1	349.207°	Site-Grotto,,
EVT	00/07/27	14:17:20	DLG	492611.72	5310657.13	Unknown	2187.075	1	349.181°	Site-Grotto,,
EVT	00/07/27	14:17:33	DLG	492611.72	5310657.13	Unknown	2187.155	1	349.139°	Site-Grotto,rebooting SM 2000,,
EVT	00/07/27	14:19:06	DLG	492609.85	5310656.68	Unknown	2187.099	1	349.077°	Site-Grotto,rebooying SM 2000,,
EVT	00/07/27	14:20:29	DLG	492609.85	5310656.68	Unknown	2187.119	0.9	348.982°	Site-Grotto,, Recalibrating,rotator
EVT	00/07/27	14:21:40	DLG	492609.20	5310656.55	Unknown	2187.093	1	349.075°	Site-Grotto,switching jaz disk,,
EVT	00/07/27	14:22:40	DLG	492611.68	5310655.51	Unknown	2187.139	1	348.959°	Site-Grotto,, Recalibrating,rotator
EVT	00/07/27	14:24:06	DLG	492614.03	5310657.01	Unknown	2187.095	1	39.456°	Site-Grotto,, Start Rec.,00G27216
EVT	00/07/27	14:35:55	DLG	492609.42	5310657.57	Unknown	2187.181	1	37.399°	Site-Grotto,, Stop Rec.,
EVT	00/07/27	14:37:12	DLG	492612.13	5310656.24	Unknown	2187.248	1	37.100°	Site-Grotto,, Recalibrating,rotator
EVT	00/07/27	14:43:01	DLG	492609.50	5310655.03	Unknown	2187.284	1	35.735°	Site-Grotto,, Start Rec.,00G27 217
EVT	00/07/27	14:48:47	DLG	492611.00	5310654.93	Unknown	2187.284	0.9	34.512°	Site-Grotto,, Stop Rec.
EVT	00/07/27	15:05:28	DLG	492614.66	5310655.11	Unknown	2187.486	1	31.525°	Site-Grotto,recording 00G27220,
EVT	00/07/27	15:05:55	DLG	492613.37	5310655.68	Unknown	2187.417	1	31.731°	Site-Grotto,program performed illegal operation nd will be shut down...SM200 shut down...,
EVT	00/07/27	15:06:01	DLG	492612.35	5310655.19	Unknown	2187.506	0.9	31.754°	Site-Grotto,being restarted.,
EVT	00/07/27	15:09:44	DLG	492615.00	5310654.40	Unknown	2187.417	1	30.948°	Site-Grotto,,
EVT	00/07/27	15:10:09	DLG	492615.00	5310654.40	Unknown	2187.430	0.9	30.894°	Site-Grotto,restarted..started recordin 00G27221.,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	15:26:30	DLG	492613.10	5310655.28	Unknown	2187.683	1	33.932°	Site-Grotto,the heading has changed from 40degrees to 35 degrees,
EVT	00/07/27	15:27:10	DLG	492608.51	5310655.32	Unknown	2187.689	1	34.283°	Site-Grotto,heading changed to 34degrees,
EVT	00/07/27	15:28:00	DLG	492606.42	5310653.85	Unknown	2187.609	0.9	33.891°	Site-Grotto,,
EVT	00/07/27	15:28:15	DLG	492606.42	5310653.85	Unknown	2187.670	1	33.757°	Site-Grotto,,
EVT	00/07/27	15:33:56	DLG	492603.05	5310652.79	Unknown	2187.703	1	33.139°	Site-Grotto,heading changed to 33 degrees,
EVT	00/07/27	15:33:57	DLG	492603.05	5310652.79	Unknown	2187.703	1	33.115°	Site-Grotto,,
EVT	00/07/27	15:33:58	DLG	492603.05	5310652.79	Unknown	2187.696	1	33.091°	Site-Grotto,,
EVT	00/07/27	15:39:17	DLG	492608.64	5310654.62	Unknown	2187.737	1	33.032°	Site-Grotto,stopped recording,,
EVT	00/07/27	15:41:51	DLG	492604.15	5310656.62	Unknown	2187.723	1	32.718°	Site-Grotto,,
EVT	00/07/27	15:41:55	DLG	492604.15	5310656.62	Unknown	2187.683	1	32.730°	Site-Grotto,,
EVT	00/07/27	15:43:32	DLG	492607.86	5310654.67	Unknown	2187.729	1	31.930°	Site-Grotto,started recording....27223
EVT	00/07/27	15:45:22	DLG	492608.12	5310655.04	Unknown	2187.801	1	31.860°	Site-Grotto,
EVT	00/07/27	15:45:23	DLG	492608.12	5310655.04	Unknown	2187.801	1	31.857°	Site-Grotto,
EVT	00/07/27	15:47:31	DLG	492608.12	5310655.04	Unknown	2187.827	1	33.761°	Site-Grotto,
EVT	00/07/27	15:48:01	DLG	492608.12	5310655.04	Unknown	2187.754	1	33.560°	Site-Grotto,
EVT	00/07/27	15:51:46	DLG	492610.23	5310653.79	Unknown	2187.798	1	32.064°	Site-Grotto,stopped.
EVT	00/07/27	15:52:01	DLG	492610.23	5310653.79	Unknown	2187.854	1	32.084°	Site-Grotto,started 00g27224
EVT	00/07/27	15:54:47	DLG	492610.23	5310653.79	Unknown	2187.838	1	31.780°	Site-Grotto,
EVT	00/07/27	15:54:48	DLG	492610.23	5310653.79	Unknown	2187.838	1	31.779°	Site-Grotto,
EVT	00/07/27	16:02:47	DLG	492606.30	5310655.10	Unknown	2187.896	1	33.353°	Site-Grotto,stopped
EVT	00/07/27	16:03:18	DLG	492603.89	5310654.99	Unknown	2187.823	1	33.433°	Site-Grotto,started 00g27225
EVT	00/07/27	16:07:07	DLG	492613.16	5310654.33	Unknown	2187.823	1	32.323°	Site-Grotto,
EVT	00/07/27	16:07:08	DLG	492613.16	5310654.33	Unknown	2187.823	1	32.299°	Site-Grotto,
EVT	00/07/27	16:18:35	DLG	492609.14	5310654.73	Unknown	2187.922	1	29.513°	Site-Grotto,stopped recording
EVT	00/07/27	16:18:37	DLG	492609.14	5310654.73	Unknown	2187.916	1	29.508°	Site-Grotto,
EVT	00/07/27	16:25:00	DLG	492611.42	5310654.59	Unknown	2187.944	1	32.606°	Site-Grotto,saterted recording 226
EVT	00/07/27	16:28:27	DLG	492615.23	5310654.98	Unknown	2187.965	1	33.404°	Site-Grotto,the fluffy white particles are moving strongly to the right...strong tide to the right
EVT	00/07/27	16:37:00	DLG	492607.01	5310654.41	Unknown	2187.971	1	30.289°	Site-Grotto,stopped recording.
EVT	00/07/27	16:37:04	DLG	492607.01	5310654.41	Unknown	2187.958	1	30.278°	Site-Grotto,
EVT	00/07/27	16:37:04	DLG	492607.01	5310654.41	Unknown	2187.958	1	30.278°	Site-Grotto,
EVT	00/07/27	16:37:53	DLG	492616.76	5310654.96	Unknown	2187.973	1	30.217°	Site-Grotto,VID_GRAB
EVT	00/07/27	16:43:11	DLG	492611.82	5310653.88	Unknown	2188.020	1	29.254°	Site-Grotto,started 227
EVT	00/07/27	16:46:13	DLG	492606.05	5310653.38	Unknown	2187.953	1	27.673°	Site-Grotto,the FWT are moving right (fluffy white things)
EVT	00/07/27	16:48:14	DLG	492613.61	5310653.89	Unknown	2188.047	1	33.277°	Site-Grotto,stopped recording.
EVT	00/07/27	16:51:26	DLG	492616.81	5310655.08	Unknown	2188.054	1	32.565°	Site-Grotto,recording 228
EVT	00/07/27	16:53:55	DLG	492504.50	5310635.19	Unknown	2188.029	1	32.356°	Site-Grotto,the FWT are going straight down...
EVT	00/07/27	16:54:10	DLG	492504.50	5310635.19	Unknown	2188.016	1	32.242°	Site-Grotto,..at least they have stopped going right
EVT	00/07/27	16:56:36	DLG	492617.58	5310654.64	Unknown	2188.103	1	31.605°	Site-Grotto,stopped recording

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	16:56:38	DLG	492617.58	5310654.64	Unknown	2188.069	1	31.621°	Site-Grotto,
EVT	00/07/27	16:56:38	DLG	492617.58	5310654.64	Unknown	2188.069	1	31.621°	Site-Grotto,
EVT	00/07/27	16:56:38	DLG	492617.58	5310654.64	Unknown	2188.069	1	31.620°	Site-Grotto,
EVT	00/07/27	16:59:57	DLG	492617.58	5310654.64	Unknown	2188.049	1	31.172°	Site-Grotto,fwt moving slightly right
EVT	00/07/27	17:03:21	DLG	492605.49	5310651.50	Unknown	2188.069	1	30.378°	Site-Grotto,recording 229
EVT	00/07/27	17:06:18	DLG	492605.49	5310651.50	Unknown	2188.109	1	29.622°	Site-Grotto,pwt moving right
EVT	00/07/27	17:10:58	DLG	492607.66	5310653.90	Unknown	2188.105	1	28.775°	Site-Grotto,FWT coming towards us.
EVT	00/07/27	17:11:15	DLG	492607.66	5310653.90	Unknown	2188.164	1	28.592°	Site-Grotto,"...slowly,languidly filing past us"
EVT	00/07/27	17:18:47	DLG	492617.37	5310655.64	Unknown	2188.144	1	26.698°	Site-Grotto,stopped
EVT	00/07/27	17:18:47	DLG	492617.37	5310655.64	Unknown	2188.144	1	26.719°	Site-Grotto,
EVT	00/07/27	17:19:03	DLG	492617.37	5310655.64	Unknown	2188.084	1	26.670°	Site-Grotto,fwt still flowing past.
EVT	00/07/27	17:32:38	DLG	492616.41	5310655.23	Unknown	2188.052	1	25.434°	Site-Grotto,FWT going to the left
EVT	00/07/27	17:36:59	DLG	492616.41	5310655.23	Unknown	2188.093	1	33.073°	Site-Grotto,stopped recording 30.
EVT	00/07/27	17:37:13	DLG	492616.41	5310655.23	Unknown	2188.106	1	32.833°	Site-Grotto,fwt flowing to left
EVT	00/07/27	17:43:04	DLG	492606.38	5310652.65	Unknown	2188.086	1	32.389°	Site-Grotto,started 231
EVT	00/07/27	17:43:15	DLG	492606.38	5310652.65	Unknown	2188.113	1	32.421°	Site-Grotto,fwt still flowing to left
EVT	00/07/27	17:44:54	DLG	492606.38	5310652.65	Unknown	2188.088	1	31.856°	Site-Grotto,at 17:44 jason wiggled a bit
EVT	00/07/27	17:48:15	DLG	492612.05	5310656.01	Unknown	2188.022	1	31.842°	Site-Grotto,stopped
EVT	00/07/27	17:48:27	DLG	492610.37	5310653.50	Unknown	2188.050	1	31.651°	Site-Grotto,stopped 31
EVT	00/07/27	17:51:22	DLG	492608.13	5310653.72	Unknown	2188.071	1	31.428°	Site-Grotto,recording 232
EVT	00/07/27	17:56:34	DLG	492603.92	5310651.98	Unknown	2188.056	1	30.421°	Site-Grotto,stopped recording
EVT	00/07/27	17:56:56	DLG	492608.82	5310653.63	Unknown	2188.042	1	30.176°	Site-Grotto,fwt seems to be flowing down.
EVT	00/07/27	18:02:04	DLG	492603.60	5310652.86	Unknown	2188.040	1	33.821°	Site-Grotto,recording 33
EVT	00/07/27	18:02:32	DLG	492603.60	5310652.86	Unknown	2188.040	1	33.757°	Site-Grotto,not started as yet..
EVT	00/07/27	18:03:22	DLG	492603.60	5310652.86	Unknown	2188.080	1	33.759°	Site-Grotto,started 233
EVT	00/07/27	18:13:10	DLG	492614.36	5310656.00	Unknown	2188.142	1	31.256°	Site-Grotto,fwt moving left
EVT	00/07/27	18:15:25	DLG	492612.95	5310653.60	Unknown	2188.069	1	31.065°	Site-Grotto,fwt flowing left or probably little towards us.
EVT	00/07/27	18:18:37	DLG	492612.95	5310653.60	Unknown	2188.005	1	30.705°	Site-Grotto,stoppd recording
EVT	00/07/27	18:24:58	DLG	492608.64	5310653.33	Unknown	2188.008	1	29.508°	Site-Grotto,started recording 234
EVT	00/07/27	18:29:48	DLG	492606.14	5310654.40	Unknown	2187.994	1	32.908°	Site-Grotto,fwt looks like they are slowly moving UP!!!!
EVT	00/07/27	18:30:04	DLG	492605.35	5310654.99	Unknown	2187.987	1	32.927°	Site-Grotto,...actually more lik to the left and towards us.
EVT	00/07/27	18:37:09	DLG	492614.69	5310655.77	Unknown	2188.087	1	33.272°	Site-Grotto,stopped recording.
EVT	00/07/27	18:37:10	DLG	492614.69	5310655.77	Unknown	2188.127	1	33.291°	Site-Grotto,
EVT	00/07/27	18:37:34	DLG	492614.69	5310655.77	Unknown	2188.093	1	33.263°	Site-Grotto,fwt slowly falling down.
EVT	00/07/27	18:43:02	DLG	492611.69	5310656.02	Unknown	2188.091	1	32.466°	Site-Grotto,starting 235
EVT	00/07/27	18:43:30	DLG	492611.69	5310656.02	Unknown	2188.058	1	32.579°	Site-Grotto,fwt calmly moving past.
EVT	00/07/27	18:48:41	DLG	492610.50	5310653.98	Unknown	2187.983	1	32.190°	Site-Grotto,, Stop Rec...,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	18:50:50	DLG	492608.91	5310655.21	Unknown	2188.056	1	31.316°	Site-Grotto,"white particulate matter in the water column seems to be going in multiple directions (brow camera, video decks 1 and 3)" ,,,,
EVT	00/07/27	18:51:25	DLG	492608.91	5310655.21	Unknown	2188.036	1	31.033°	Site-Grotto,, DIFFUSE,, Start Rec.,D3 00G27236
EVT	00/07/27	18:56:30	DLG	492613.11	5310655.69	Unknown	2187.969	1	30.637°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	19:03:42	DLG	492617.86	5310654.80	Unknown	2187.965	1	29.440°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	19:08:58	DLG	492606.35	5310655.14	Unknown	2187.984	1	28.660°	Site-Grotto,, PLUME,, Start Rec.,I1 00G27237 (started at 1903)
EVT	00/07/27	19:16:34	DLG	492616.88	5310655.04	Unknown	2187.887	1	26.972°	Site-Grotto,"disregard last, did NOT record I1" ,,,,
EVT	00/07/27	19:20:35	DLG	492610.86	5310653.96	Unknown	2187.926	1	25.672°	Site-Grotto,"finished 24 hour time series (1900), preparing to leave station to perform video survey of Grotto pinnacles followed by acoustic absorption experiment" ,,,,
EVT	00/07/27	19:22:35	DLG	492610.86	5310653.96	Unknown	2187.926	1	25.924°	Site-Grotto,smoke currently being blown towards us ,,,,
EVT	00/07/27	19:31:11	DLG	492498.57	5310635.30	Unknown	2187.699	0.9	35.143°	Site-Grotto,moving off perch ,,,,
EVT	00/07/27	19:32:19	DLG	492615.88	5310655.54	Unknown	2184.095	4.7	300.279°	Site-Grotto,switched video decks 1 and 3 to aft camera for navigation (cheerio shaped objects appearing) ,,,,
EVT	00/07/27	19:32:35	DLG	492615.88	5310655.54	Unknown	2184.272	4	173.491°	Site-Grotto,removing twists from tether and moving Medea into position ,,,,
EVT	00/07/27	19:34:48	DLG	492615.90	5310655.20	Unknown	2184.308	3.9	34.859°	Site-Grotto,video decks 1 and 3 switched back to brow camera ,,,,
EVT	00/07/27	19:36:06	DLG	492621.48	5310661.04	Unknown	2184.225	4.7	37.151°	Site-Grotto,tether straightened out ,,,,
EVT	00/07/27	19:36:42	DLG	492625.42	5310666.44	Unknown	2183.962	5.5	46.533°	Site-Grotto,in visual range of Grotto ,,,,
EVT	00/07/27	19:37:02	DLG	492624.82	5310667.29	Unknown	2183.852	6.6	50.142°	Site-Grotto,preparing to begin video survey of Grotto smokers ,,,,
EVT	00/07/27	19:37:23	DLG	492625.90	5310669.02	Unknown	2184.045	8	57.263°	Site-Grotto,in visual range of smoker ,,,,
EVT	00/07/27	19:37:35	DLG	492625.90	5310669.02	Unknown	2183.680	8.5	70.324°	Site-Grotto,VID_GRAB,
EVT	00/07/27	19:37:52	DLG	492625.90	5310669.02	Unknown	2183.406	8.7	71.655°	Site-Grotto,VID_GRAB,southern pinnacle
EVT	00/07/27	19:38:54	DLG	492631.74	5310666.31	Unknown	2183.327	9.2	46.749°	Site-Grotto,VID_GRAB,smoking on the southern chimney of Grotto
EVT	00/07/27	19:39:38	DLG	492631.75	5310665.81	Unknown	2184.451	9.1	42.441°	Site-Grotto,VID_GRAB,
EVT	00/07/27	19:39:45	DLG	492631.75	5310665.81	Unknown	2184.266	9.3	36.379°	Site-Grotto,VID_GRAB,
EVT	00/07/27	19:40:22	DLG	492633.29	5310664.20	Unknown	2183.945	9.7	37.320°	Site-Grotto,VID_GRAB,
EVT	00/07/27	19:41:53	DLG	492631.77	5310669.68	Unknown	2183.500	8.7	87.231°	Site-Grotto,VID_GRAB,some strong smoke from this chimney
EVT	00/07/27	19:42:14	DLG	492633.27	5310669.50	Unknown	2183.427	8.8	86.837°	Site-Grotto,unsure whether we are at southern or northern tower,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	19:42:36	DLG	492633.27	5310669.50	Unknown	2183.602	8.7	89.694°	Site-Grotto,VID_GRAB,intense smoke from this tower
EVT	00/07/27	19:43:10	DLG	492632.94	5310669.99	Unknown	2183.655	8.4	88.404°	Site-Grotto,VID_GRAB,
EVT	00/07/27	19:45:20	DLG	492632.76	5310669.97	Unknown	2183.888	9.3	84.516°	Site-Grotto,preparing to move to other chimney,
EVT	00/07/27	19:47:09	DLG	492631.09	5310671.86	Unknown	2184.214	9.2	89.088°	Site-Grotto,VID_GRAB,smoking on Grotto
EVT	00/07/27	19:47:35	DLG	492633.84	5310671.29	Unknown	2184.131	9.3	92.149°	Site-Grotto,VID_GRAB,
EVT	00/07/27	19:49:18	DLG	492639.16	5310674.49	Unknown	2184.243	11.8	147.781°	Site-Grotto,"moving to upstream of smoke, staying at same tower as original (southern tower???) to obtain good video grabs",
EVT	00/07/27	19:49:27	DLG	492639.16	5310674.49	Unknown	2184.323	9.4	147.555°	Site-Grotto,VID_GRAB,
EVT	00/07/27	19:49:47	DLG	492637.70	5310673.33	Unknown	2184.163	11.9	147.254°	Site-Grotto,"confirmed, actually at northern tower, NOT southern",,,
EVT	00/07/27	19:50:06	DLG	492638.76	5310672.48	Unknown	2184.259	11.7	146.252°	Site-Grotto,VID_GRAB,intense smoking on northern tower,,,
EVT	00/07/27	19:50:43	DLG	492638.71	5310672.13	Unknown	2184.278	7.2	150.600°	Site-Grotto,VID_GRAB,,,
EVT	00/07/27	19:51:39	DLG	492638.20	5310673.10	Unknown	2184.687	6.8	151.003°	Site-Grotto,VID_GRAB,smoking on northern tower of Grotto,,,
EVT	00/07/27	19:51:43	DLG	492638.20	5310673.10	Unknown	2184.441	7	149.759°	Site-Grotto,VID_GRAB,,,
EVT	00/07/27	19:52:35	DLG	492640.55	5310672.63	Unknown	2183.502	13.8	184.451°	Site-Grotto,all records since 193642 have been visuals of NORTHERN TOWER OF GROTTA (NOT southern as previously indicated),,,
EVT	00/07/27	19:53:15	DLG	492640.38	5310670.29	Unknown	2183.745	13.7	221.791°	Site-Grotto,VID_GRAB,"smoke billowing on northern Grotto tower, obscuring its pinnacle",,,
EVT	00/07/27	19:54:52	DLG	492639.99	5310668.13	Unknown	2182.773	6.5	220.137°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	19:58:39	DLG	492644.96	5310673.17	Unknown	2179.687	18.2	200.970°	Site-Grotto,moving into position for acoustic absorption experiment,,,
EVT	00/07/27	19:59:40	DLG	492644.94	5310672.58	Unknown	2179.667	18.3	201.643°	Site-Grotto,pre-scanning to test acoustic absorption settings and position of Jason,,,
EVT	00/07/27	20:01:52	DLG	492643.95	5310673.32	Unknown	2179.840	18.2	202.034°	Site-Grotto,, PLUME,, Start Rec.,acoustic absorption 00G27237
EVT	00/07/27	20:04:48	DLG	492643.87	5310673.40	Unknown	2179.871	3.4	201.526°	Site-Grotto,pause recording to move up in altitude,,,
EVT	00/07/27	20:05:37	DLG	492644.94	5310673.07	Unknown	2176.830	21.1	201.353°	Site-Grotto,resume recording,,,
EVT	00/07/27	20:08:58	DLG	492643.73	5310673.19	Unknown	2176.854	21.1	203.076°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	20:09:52	DLG	492644.41	5310673.41	Unknown	2176.883	21	202.780°	Site-Grotto,"maintaining current hovering position, resetting sonar to do another series",,,
EVT	00/07/27	20:09:55	DLG	492644.41	5310673.41	Unknown	2176.837	21.1	203.121°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	20:11:35	DLG	492646.30	5310672.37	Unknown	2176.834	16.7	201.147°	Site-Grotto,previous series was acoustic absorption Mode 1,,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	20:17:30	DLG	492645.10	5310672.67	Unknown	2176.757	21.1	202.139°	Site-Grotto,VID_GRAB,"rattail observed, not recording data at the time though",,,
EVT	00/07/27	20:18:21	DLG	492645.59	5310672.41	Unknown	2176.789	21	202.734°	Site-Grotto,, PLUME,, Start Rec.,,acoustic absorption Mode 2 00G27238
EVT	00/07/27	20:21:39	DLG	492645.13	5310672.81	Unknown	2176.806	21	202.047°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	20:22:35	DLG	492644.49	5310672.94	Unknown	2176.901	21	202.029°	Site-Grotto,VID_GRAB,grab from Medea cam showing Jason with the smoke plume in front of Jason (top left of screen),,,
EVT	00/07/27	20:23:36	DLG	492646.04	5310672.51	Unknown	2176.914	20.9	202.658°	Site-Grotto,, PLUME,, Start Rec.,,acoustic absorption 00G27239
EVT	00/07/27	20:27:15	DLG	492642.55	5310669.50	Unknown	2182.446	14.6	208.498°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	20:27:40	DLG	492642.51	5310665.90	Unknown	2184.403	12.1	226.287°	Site-Grotto,started moving Jason prior to termination of last series,,,
EVT	00/07/27	20:29:06	DLG	492646.54	5310660.79	Unknown	2181.394	10.4	256.546°	Site-Grotto,repositioning Jason for another perspective for acoustic absorption series,,,
EVT	00/07/27	20:33:36	DLG	492646.83	5310661.65	Unknown	2176.630	16.1	243.864°	Site-Grotto,Jason in position,,,
EVT	00/07/27	20:33:52	DLG	492646.46	5310661.52	Unknown	2176.464	15.9	243.683°	Site-Grotto,, PLUME,, Start Rec.,,00G27240
EVT	00/07/27	20:37:39	DLG	492647.50	5310661.49	Unknown	2176.548	16	243.503°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	20:39:11	DLG	492646.75	5310661.77	Unknown	2176.458	15.9	244.082°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	20:40:00	DLG	492646.40	5310661.84	Unknown	2176.523	15.6	243.646°	Site-Grotto,, PLUME,, Start Rec.,,Mode 2 acoustic absorption 00G27241
EVT	00/07/27	20:43:07	DLG	492647.23	5310661.34	Unknown	2176.564	15.3	244.026°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	20:43:55	DLG	492646.71	5310661.15	Unknown	2173.869	17.9	243.663°	Site-Grotto,ascending 2 metres to do another acoustic absorption series,,,
EVT	00/07/27	20:45:31	DLG	492647.86	5310660.89	Unknown	2173.863	17.8	243.942°	Site-Grotto,, PLUME,, Start Rec.,,Mode 1 acoustic absorption 00G27242
EVT	00/07/27	20:52:01	DLG	492646.17	5310661.45	Unknown	2173.875	17.7	243.839°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	20:53:31	DLG	492647.59	5310661.16	Unknown	2173.653	18.1	243.875°	Site-Grotto,, PLUME,, Start Rec.,,"Mode 1 acoustic absorption 00G27243, low power"
EVT	00/07/27	20:57:15	DLG	492646.21	5310662.06	Unknown	2173.798	18.4	243.524°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	21:00:06	DLG	492645.89	5310661.77	Unknown	2173.805	17.1	243.690°	Site-Grotto,, PLUME,, Start Rec.,,Mode 2 acoustic absorption 00G27244
EVT	00/07/27	21:05:41	DLG	492646.29	5310661.24	Unknown	2173.313	18.1	243.116°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	21:08:39	DLG	492647.25	5310660.78	Unknown	2173.346	18	242.708°	Site-Grotto,, PLUME,, Start Rec.,,Mode 2 00G27245
EVT	00/07/27	21:18:16	DLG	492646.22	5310662.06	Unknown	2173.861	17	243.709°	acoustic absorption Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	21:19:15	DLG	492645.45	5310662.11	Unknown	2174.265	16.3	243.024°	Site-Grotto,previous series (00G27245) was in low power,,,
EVT	00/07/27	21:19:26	DLG	492644.44	5310661.99	Unknown	2176.307	15	243.364°	Site-Grotto,finished acoustic absorption experiment,,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	21:20:14	DLG	492644.17	5310660.99	Unknown	2182.230	9.5	269.170°	Site-Grotto,moving into position for passive sonar imaging of the smoker (getting as close as possible and level with the smoker at the pinnacle of the northern tower of Grotto,,,
EVT	00/07/27	21:24:32	DLG	492640.83	5310672.21	Unknown	2185.211	10.7	160.458°	Site-Grotto,"setting up for scan of passive sonar imaging (range 30-30 degrees, 5 degree increments)",,,
EVT	00/07/27	21:24:43	DLG	492636.82	5310673.34	Unknown	2184.828	10.5	142.496°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	21:25:17	DLG	492640.01	5310675.83	Unknown	2185.600	8.4	105.546°	Site-Grotto,restarting SM2000 software,,,
EVT	00/07/27	21:28:29	DLG	492643.98	5310666.65	Unknown	2184.370	12.6	192.130°	Site-Grotto,VID_GRAB,"Hobo spotted on Grotto, dead ahead",,,
EVT	00/07/27	21:30:01	DLG	492638.88	5310672.06	Unknown	2183.614	8.6	147.882°	Site-Grotto,VID_GRAB,"looking at the large puffer on Grotto, the one being targetted for sonar imaging",,,
EVT	00/07/27	21:33:47	DLG	492637.31	5310672.41	Unknown	2183.124	9	147.330°	Site-Grotto,, Recalibrating,,,
EVT	00/07/27	21:40:04	DLG	492638.04	5310672.95	Unknown	2183.218	11.3	110.111°	Site-Grotto,VID_GRAB,established position 6-7 metres away,,,
EVT	00/07/27	21:40:31	DLG	492638.62	5310672.64	Unknown	2183.398	11.1	109.963°	Site-Grotto,, PLUME,, Start Rec.,passive sonar 00G27246 (started 2140)
EVT	00/07/27	21:41:27	DLG	492637.90	5310673.25	Unknown	2183.356	11.2	109.728°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	21:41:46	DLG	492637.06	5310672.77	Unknown	2182.132	12.3	109.539°	Site-Grotto,repositioning (ledge in the way for previous spot),,,
EVT	00/07/27	21:41:59	DLG	492638.71	5310672.46	Unknown	2182.192	12.3	110.861°	Site-Grotto,VID_GRAB,established new position,,,
EVT	00/07/27	21:42:30	DLG	492637.70	5310673.98	Unknown	2182.141	12.2	109.646°	Site-Grotto,, PLUME,, Start Rec.,passive sonar 00G27247 (started 2142)
EVT	00/07/27	21:44:55	DLG	492637.33	5310673.54	Unknown	2182.121	12.3	110.263°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	21:47:28	DLG	492639.61	5310673.91	Unknown	2181.522	13.7	109.624°	Site-Grotto,moving into position so that smokers are in the right side of the view of the sonar (previously slightly on the left),,,
EVT	00/07/27	21:47:42	DLG	492639.86	5310673.51	Unknown	2181.509	13.7	109.361°	Site-Grotto,, PLUME,, Start Rec.,00G27248 passive sonar imaging
EVT	00/07/27	21:49:21	DLG	492639.50	5310673.47	Unknown	2181.440	13.7	109.965°	Site-Grotto,VID_GRAB,our new position,,,
EVT	00/07/27	21:51:08	DLG	492638.24	5310673.51	Unknown	2181.416	13.9	109.948°	Site-Grotto,changing downward angle due to higher elevation than previous position,,,
EVT	00/07/27	21:54:14	DLG	492637.91	5310673.10	Unknown	2181.381	14.2	110.177°	Site-Grotto,VID_GRAB,Jason's headlights lost in the plume cloud,,,
EVT	00/07/27	21:55:13	DLG	492638.73	5310672.97	Unknown	2181.283	14.1	110.128°	Site-Grotto,, Stop Rec.,,,
EVT	00/07/27	21:56:07	DLG	492639.95	5310673.54	Unknown	2181.510	14.2	109.657°	Site-Grotto,, PLUME,, Start Rec.,00G27249 passive sonar imaging

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	21:56:36	DLG	492639.74	5310673.14	Unknown	2181.330	14.1	109.768°	Site-Grotto,this run pointing down 10 degrees in passive mode,,,,
EVT	00/07/27	21:57:12	DLG	492637.43	5310673.91	Unknown	2181.313	14.3	110.143°	Site-Grotto,rotating down to 20 degrees,
EVT	00/07/27	21:58:02	DLG	492639.61	5310673.09	Unknown	2181.439	14.4	109.814°	Site-Grotto,rotating down to 30 degrees,
EVT	00/07/27	21:59:07	DLG	492638.09	5310673.80	Unknown	2181.352	13.9	110.254°	Site-Grotto,, Stop Rec.
EVT	00/07/27	21:59:33	DLG	492638.14	5310673.58	Unknown	2181.867	13.9	144.087°	Site-Grotto,visually confirming where we were pointed during the passive sonar imagin,
EVT	00/07/27	22:01:43	DLG	492638.66	5310671.95	Unknown	2184.516	8.8	77.666°	Site-Grotto,VID_GRAB,
EVT	00/07/27	22:01:51	DLG	492638.66	5310671.95	Unknown	2184.110	9	79.161°	Site-Grotto,VID_GRAB,
EVT	00/07/27	22:01:56	DLG	492638.66	5310671.95	Unknown	2184.110	9.6	83.758°	Site-Grotto,VID_GRAB,
EVT	00/07/27	22:02:02	DLG	492636.33	5310670.22	Unknown	2183.604	9.7	81.237°	Site-Grotto,VID_GRAB,
EVT	00/07/27	22:02:11	DLG	492636.33	5310670.22	Unknown	2183.644	9.8	76.834°	Site-Grotto,VID_GRAB,
EVT	00/07/27	22:02:49	DLG	492634.25	5310670.63	Unknown	2183.545	9.8	74.961°	Site-Grotto,VID_GRAB,
EVT	00/07/27	22:03:05	DLG	492634.06	5310670.83	Unknown	2183.453	10.9	85.526°	Site-Grotto,VID_GRAB,
EVT	00/07/27	22:03:31	DLG	492636.99	5310670.21	Unknown	2183.540	10.7	84.570°	Site-Grotto,VID_GRAB,twin strong smokers on Grotto northern tower
EVT	00/07/27	22:03:51	DLG	492636.25	5310670.76	Unknown	2183.547	10.7	86.507°	Site-Grotto,VID_GRAB,
EVT	00/07/27	22:04:28	DLG	492635.30	5310671.37	Unknown	2183.323	10.7	112.015°	Site-Grotto,VID_GRAB,weak smoker to right of strong smokers (right hand strong smoker in view on left)
EVT	00/07/27	22:05:05	DLG	492636.15	5310670.67	Unknown	2183.236	10.8	111.091°	Site-Grotto,VID_GRAB,strong smoker above and to the right of strong smokers (right hand strong smoker in view)
EVT	00/07/27	22:05:43	DLG	492634.72	5310670.35	Unknown	2183.199	10.5	117.479°	Site-Grotto,VID_GRAB,positioned here to perform additional passive sonar imaging run
EVT	00/07/27	22:06:06	DLG	492635.26	5310670.63	Unknown	2183.223	10.4	121.233°	Site-Grotto,, Recalibrating,,
EVT	00/07/27	22:07:01	DLG	492634.89	5310670.56	Unknown	2182.946	10.9	122.999°	Site-Grotto,VID_GRAB,repositioned to be more level with strong plume,,
EVT	00/07/27	22:07:09	DLG	492634.89	5310670.56	Unknown	2182.885	10.8	122.406°	Site-Grotto,VID_GRAB,,
EVT	00/07/27	22:10:23	DLG	492634.86	5310669.90	Unknown	2182.975	10.6	115.315°	Site-Grotto,, Recalibrating,,
EVT	00/07/27	22:11:30	DLG	492635.93	5310670.62	Unknown	2183.097	10.8	114.650°	Site-Grotto,VID_GRAB,"on location, preparing to perform another passive sonar imaging run",,,
EVT	00/07/27	22:12:49	DLG	492635.89	5310670.11	Unknown	2183.044	10.7	114.587°	Site-Grotto,VID_GRAB,,
EVT	00/07/27	22:13:39	DLG	492634.94	5310670.48	Unknown	2182.997	10.6	114.918°	Site-Grotto,restarting SM2000 software,,
EVT	00/07/27	22:15:40	DLG	492635.06	5310671.19	Unknown	2183.019	10.6	115.014°	Site-Grotto,VID_GRAB,,
EVT	00/07/27	22:15:56	DLG	492635.06	5310671.19	Unknown	2182.972	10.7	114.461°	Site-Grotto,VID_GRAB,,
EVT	00/07/27	22:19:20	DLG	492636.44	5310670.02	Unknown	2183.075	10.5	115.404°	Site-Grotto,putting a marker on the map to be able to come back,,
EVT	00/07/27	22:19:42	DLG	492635.10	5310670.83	Unknown	2182.962	10.6	114.942°	Site-Grotto,, PLUME,, Start Rec.,passive imaging 00G27250

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	22:20:49	DLG	492635.05	5310670.65	Unknown	2183.000	10.7	114.166°	Site-Grotto, estimate smoker orifice to be about 5 cm diameter,,,,
EVT	00/07/27	22:24:23	DLG	492635.50	5310670.03	Unknown	2182.942	11.1	114.529°	Site-Grotto, VID_GRAB, recording passive sonar,,,,
EVT	00/07/27	22:25:26	DLG	492634.87	5310670.51	Unknown	2182.949	9.2	114.560°	Site-Grotto, VID_GRAB,,,,
EVT	00/07/27	22:27:31	DLG	492633.92	5310670.28	Unknown	2182.955	10.6	114.643°	Site-Grotto, VID_GRAB,,,,
EVT	00/07/27	22:29:17	DLG	492635.24	5310670.32	Unknown	2182.928	10.4	114.915°	Site-Grotto, paused recording 2229,,,,
EVT	00/07/27	22:30:39	DLG	492635.31	5310669.73	Unknown	2182.922	10.7	115.083°	Site-Grotto, "resume recording (upper 40 deg, lower -15)",
EVT	00/07/27	22:31:03	DLG	492635.11	5310669.90	Unknown	2182.949	10.7	113.606°	Site-Grotto, drifted heading,
EVT	00/07/27	22:31:17	DLG	492634.25	5310670.55	Unknown	2182.935	10.6	113.518°	Site-Grotto, VID_GRAB, new perspective with drifted heading
EVT	00/07/27	22:31:30	DLG	492634.25	5310670.55	Unknown	2182.968	10.6	114.227°	Site-Grotto, VID_GRAB,
EVT	00/07/27	22:32:07	DLG	492634.36	5310670.22	Unknown	2182.937	10.8	114.555°	Site-Grotto, VID_GRAB, largest black smoker at Grotto
EVT	00/07/27	22:33:08	DLG	492634.08	5310670.23	Unknown	2183.064	10.6	114.305°	Site-Grotto, VID_GRAB, brow camera perspective of same position
EVT	00/07/27	22:34:39	DLG	492635.11	5310669.69	Unknown	2182.991	10.6	114.313°	Site-Grotto, VID_GRAB, heading drifting a bit
EVT	00/07/27	22:36:40	DLG	492634.35	5310671.08	Unknown	2183.040	10.6	114.519°	Site-Grotto,, Stop Rec.
EVT	00/07/27	22:37:53	DLG	492635.19	5310670.06	Unknown	2183.013	10.7	114.561°	Site-Grotto, plan to do video survey of southern tower and perform passive sonar imaging there,
EVT	00/07/27	22:38:09	DLG	492635.58	5310669.99	Unknown	2182.747	10.5	112.537°	Site-Grotto, removing twists from Jason tether,
EVT	00/07/27	22:52:49	DLG	492634.46	5310661.64	Unknown	2184.588	10.4	11.786°	Site-Grotto, VID_GRAB, Hobo on north tower of Grotto
EVT	00/07/27	22:55:57	DLG	492639.92	5310651.04	Unknown	2187.111	10.3	33.300°	Site-Grotto, VID_GRAB, North tower of Grotto
EVT	00/07/27	23:00:43	DLG	492639.46	5310654.64	Unknown	2187.548	9.2	29.820°	Site-Grotto, VID_GRAB, black smoker on Grotto
EVT	00/07/27	23:05:12	DLG	492647.57	5310647.45	Unknown	2187.937	9.1	321.244°	Site-Grotto, VID_GRAB, current metre on Grotto
EVT	00/07/27	23:09:33	DLG	492635.09	5310655.56	Unknown	2187.782	9.4	58.583°	Site-Grotto, still looking at Grotto,
EVT	00/07/27	23:10:24	DLG	492637.62	5310656.25	Unknown	2188.878	8.6	55.967°	Site-Grotto, VID_GRAB, west face of south tower of Grotto
EVT	00/07/27	23:10:59	DLG	492637.10	5310657.00	Unknown	2189.071	8.3	56.124°	Site-Grotto, VID_GRAB, little bit of diffuse flow on south tower of Grotto
EVT	00/07/27	23:11:27	DLG	492640.14	5310654.93	Unknown	2189.144	2.8	56.304°	Site-Grotto, VID_GRAB, tube worms and diffuse flow on south tower of Grotto
EVT	00/07/27	23:12:13	DLG	492638.29	5310655.78	Unknown	2188.886	8.7	56.649°	Site-Grotto, VID_GRAB, south tower of Grotto
EVT	00/07/27	23:13:09	DLG	492638.69	5310656.66	Unknown	2188.840	1.8	56.764°	Site-Grotto, VID_GRAB, south tower of Grotto
EVT	00/07/27	23:13:53	DLG	492633.57	5310655.14	Unknown	2189.989	7.6	68.254°	Site-Grotto, VID_GRAB, black smoker on Grotto

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	23:14:42	DLG	492639.18	5310656.07	Unknown	2189.093	8.3	67.029°	Site-Grotto,VID_GRAB,tube worms on Grotto
EVT	00/07/27	23:15:50	DLG	492638.19	5310656.50	Unknown	2191.144	6.4	68.297°	Site-Grotto,VID_GRAB,western part of Grotto's south tower
EVT	00/07/27	23:16:08	DLG	492638.88	5310656.62	Unknown	2190.984	6.5	66.880°	Site-Grotto,VID_GRAB,tube worms on Grotto
EVT	00/07/27	23:16:34	DLG	492640.28	5310656.43	Unknown	2192.062	5.5	67.942°	Site-Grotto,VID_GRAB,diffuse flow on Grotto
EVT	00/07/27	23:18:07	DLG	492637.92	5310656.98	Unknown	2192.921	4.7	67.069°	Site-Grotto,VID_GRAB,maybe diffuse flow on Grotto
EVT	00/07/27	23:18:41	DLG	492638.26	5310655.84	Unknown	2192.915	4.6	67.228°	Site-Grotto,going down slowly,
EVT	00/07/27	23:19:18	DLG	492638.16	5310656.39	Unknown	2193.022	4.6	67.227°	Site-Grotto,VID_GRAB,west part of Grotto
EVT	00/07/27	23:19:41	DLG	492638.70	5310656.02	Unknown	2192.957	4.7	67.510°	Site-Grotto,south tower that is,
EVT	00/07/27	23:20:54	DLG	492637.75	5310657.76	Unknown	2192.884	4.7	63.179°	Site-Grotto,VID_GRAB,bacterial mat and diffuse flow on south tower of Grotto
EVT	00/07/27	23:21:23	DLG	492638.25	5310656.90	Unknown	2192.964	4.6	62.389°	Site-Grotto,VID_GRAB,Diffuse and bacterial mat on south tower of Grotto
EVT	00/07/27	23:22:56	DLG	492638.89	5310656.86	Unknown	2192.919	4.7	61.644°	Site-Grotto,VID_GRAB,diffuse flow and bacterial mat form Grotto-larger view
EVT	00/07/27	23:23:27	DLG	492637.43	5310656.49	Unknown	2192.926	4.7	62.541°	Site-Grotto,altitude about 5 m,
EVT	00/07/27	23:24:19	DLG	492637.22	5310656.25	Unknown	2192.820	4.8	62.074°	Site-Grotto,VID_GRAB,tube worms
EVT	00/07/27	23:24:40	DLG	492637.68	5310655.86	Unknown	2192.833	4.8	61.593°	Site-Grotto,VID_GRAB,tube worms on Grotto closer view
EVT	00/07/27	23:25:38	DLG	492638.25	5310655.64	Unknown	2192.886	4.8	62.497°	Site-Grotto,VID_GRAB,same picture larger view
EVT	00/07/27	23:25:46	DLG	492638.25	5310655.64	Unknown	2192.840	4.8	61.240°	Site-Grotto,going down a bit,
EVT	00/07/27	23:26:22	DLG	492638.34	5310655.91	Unknown	2194.737	3	61.968°	Site-Grotto,,
EVT	00/07/27	23:26:39	DLG	492638.04	5310656.26	Unknown	2195.031	2.9	61.849°	Site-Grotto,VID_GRAB,base of south tower of Grotto
EVT	00/07/27	23:27:36	DLG	492638.59	5310655.67	Unknown	2195.003	2.9	62.469°	Site-Grotto,VID_GRAB,diffuse flow and bacterial mat at the base of Grotto's south tower
EVT	00/07/27	23:28:11	DLG	492637.71	5310655.73	Unknown	2194.937	2.9	62.011°	Site-Grotto,VID_GRAB,base of south tower
EVT	00/07/27	23:29:39	DLG	492637.82	5310656.22	Unknown	2194.997	2.9	62.095°	Site-Grotto,VID_GRAB,snails at the base of Grotto
EVT	00/07/27	23:30:23	DLG	492638.56	5310655.75	Unknown	2195.010	2.9	62.161°	Site-Grotto,VID_GRAB,bacterial mat on Grotto
EVT	00/07/27	23:31:07	DLG	492637.55	5310656.09	Unknown	2194.997	2.1	351.472°	Site-Grotto,VID_GRAB,some piece of rope
EVT	00/07/27	23:31:25	DLG	492638.37	5310656.68	Unknown	2194.963	2.1	10.799°	Site-Grotto,VID_GRAB,clams at the base of Grotto
EVT	00/07/27	23:31:42	DLG	492638.69	5310656.17	Unknown	2195.083	2.1	10.549°	Site-Grotto,VID_GRAB,clams on Grotto-closer

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	23:32:00	DLG	492637.89	5310655.85	Unknown	2194.990	2.1	0.849°	Site-Grotto,VID_GRAB,South tower of Grotto
EVT	00/07/27	23:32:56	DLG	492638.73	5310656.38	Unknown	2194.950	2	320.183°	Site-Grotto,VID_GRAB,nother tower of Grotto
EVT	00/07/27	23:33:06	DLG	492637.18	5310656.89	Unknown	2195.010	2	320.990°	Site-Grotto,northern,
EVT	00/07/27	23:33:52	DLG	492638.85	5310656.61	Unknown	2192.999	4.3	319.882°	Site-Grotto,VID_GRAB,north tower west part
EVT	00/07/27	23:35:24	DLG	492637.79	5310656.78	Unknown	2193.059	3.9	321.449°	Site-Grotto,VID_GRAB,north tower of Grotto
EVT	00/07/27	23:35:51	DLG	492638.98	5310656.09	Unknown	2190.816	6.1	321.059°	Site-Grotto,VID_GRAB,north tower of Grotto
EVT	00/07/27	23:35:55	DLG	492638.98	5310656.09	Unknown	2190.436	6.5	321.949°	Site-Grotto,going up,
EVT	00/07/27	23:36:19	DLG	492637.21	5310657.48	Unknown	2190.030	6.9	321.568°	Site-Grotto,VID_GRAB,northern tower of Grotto
EVT	00/07/27	23:36:41	DLG	492638.43	5310655.69	Unknown	2190.129	7	322.601°	Site-Grotto,VID_GRAB,top of northern tower of Grotto
EVT	00/07/27	23:37:22	DLG	492636.56	5310656.72	Unknown	2190.136	6.8	320.632°	Site-Grotto,VID_GRAB,piece of north tower on Grotto
EVT	00/07/27	23:38:57	DLG	492629.52	5310660.13	Unknown	2189.803	1.4	11.848°	Site-Grotto,VID_GRAB,south part of north tower
EVT	00/07/27	23:39:26	DLG	492625.16	5310664.10	Unknown	2189.823	2.7	4.994°	Site-Grotto,going up a bit,
EVT	00/07/27	23:40:33	DLG	492628.29	5310663.39	Unknown	2189.231	5.2	248.487°	Site-Grotto,VID_GRAB,looking west of Grotto-place where we were sitting earlier
EVT	00/07/27	23:40:49	DLG	492627.39	5310663.36	Unknown	2189.285	4.4	357.864°	Site-Grotto,still west of Grotto,
EVT	00/07/27	23:41:10	DLG	492627.39	5310663.36	Unknown	2189.371	4.8	289.618°	Site-Grotto,VID_GRAB,south part of western Grotto
EVT	00/07/27	23:42:49	DLG	492625.96	5310666.02	Unknown	2182.250	7	305.998°	Site-Grotto,trying to look east at the west part of Grotto,
EVT	00/07/27	23:44:41	DLG	492632.78	5310676.17	Unknown	2183.592	9.9	108.959°	Site-Grotto,VID_GRAB,looking east to the western part of Grotto
EVT	00/07/27	23:45:27	DLG	492635.82	5310673.24	Unknown	2184.420	8.7	118.551°	Site-Grotto,VID_GRAB,western part of Grotto
EVT	00/07/27	23:46:08	DLG	492630.93	5310669.57	Unknown	2183.919	7.7	82.787°	Site-Grotto,VID_GRAB,black smokers on west face of Grotto
EVT	00/07/27	23:46:22	DLG	492631.73	5310669.55	Unknown	2183.899	7.7	79.626°	Site-Grotto,looking strait east,
EVT	00/07/27	23:46:54	DLG	492631.53	5310669.22	Unknown	2183.708	8.1	79.462°	Site-Grotto,going up ,
EVT	00/07/27	23:47:36	DLG	492632.86	5310669.70	Unknown	2181.808	10.8	79.181°	Site-Grotto,VID_GRAB,vigourous black smoker on Grotto
EVT	00/07/27	23:47:58	DLG	492632.99	5310669.71	Unknown	2181.925	10.9	78.039°	Site-Grotto,on top of the chimney,
EVT	00/07/27	23:48:13	DLG	492632.99	5310669.71	Unknown	2181.844	10.9	78.498°	Site-Grotto,setting up the elevator run,
EVT	00/07/27	23:48:57	DLG	492633.99	5310669.40	Unknown	2182.061	10.6	78.123°	Site-Grotto,looking east (079 deg),
EVT	00/07/27	23:49:15	DLG	492633.46	5310669.68	Unknown	2183.773	8.5	78.419°	Site-Grotto,looking at the west wall of Grotto,
EVT	00/07/27	23:49:24	DLG	492632.86	5310670.12	Unknown	2183.872	8.8	79.074°	Site-Grotto,VID_GRAB,west part of Grotto

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/27	23:49:34	DLG	492632.86	5310670.12	Unknown	2184.817	7.8	78.274°	Site-Grotto,going down,
EVT	00/07/27	23:50:01	DLG	492632.98	5310669.77	Unknown	2186.235	6.5	78.851°	Site-Grotto,VID_GRAB,western wall of Grotto
EVT	00/07/27	23:50:13	DLG	492632.98	5310669.77	Unknown	2187.434	5.8	78.859°	Site-Grotto,rebooting SM 2000,
EVT	00/07/27	23:51:00	DLG	492632.36	5310669.66	Unknown	2189.936	2.7	78.499°	Site-Grotto,VID_GRAB,west wall of Grotto
EVT	00/07/27	23:52:13	DLG	492631.77	5310670.57	Unknown	2191.860	1	79.243°	Site-Grotto,VID_GRAB,dead worms and snails
EVT	00/07/27	23:52:27	DLG	492631.10	5310670.17	Unknown	2191.940	0.9	79.618°	Site-Grotto,VID_GRAB,little crag
EVT	00/07/27	23:53:09	DLG	492630.73	5310671.02	Unknown	2191.987	0.9	79.184°	Site- Grotto,VID_GRAB,bacterial mat and devris at the base of Grotto
EVT	00/07/27	23:54:02	DLG	492631.56	5310669.67	Unknown	2191.878	1.2	79.969°	Site-Grotto,VID_GRAB,west Groto\,
EVT	00/07/27	23:54:32	DLG	492631.35	5310670.11	Unknown	2191.781	1.3	78.472°	Site- Grotto,VID_GRAB,alvinelids,
EVT	00/07/27	23:54:53	DLG	492630.99	5310669.74	Unknown	2191.878	1.1	77.969°	Site-Grotto,setting up an elevatro run,,
EVT	00/07/27	23:55:07	DLG	492631.22	5310670.00	Unknown	2191.834	1.4	78.805°	Site- Grotto,VID_GRAB,alvinellids,
EVT	00/07/27	23:55:33	DLG	492631.75	5310669.89	Unknown	2191.914	1.4	79.340°	Site-Grotto,VID_GRAB,hot water ,
EVT	00/07/27	23:55:50	DLG	492630.98	5310669.66	Unknown	2191.845	1.5	79.136°	Site-Grotto,VID_GRAB,flange,
EVT	00/07/27	23:56:20	DLG	492631.54	5310669.90	Unknown	2191.878	1.5	78.936°	Site-Grotto,VID_GRAB,hot water under a flange,
EVT	00/07/27	23:57:02	DLG	492632.96	5310668.72	Unknown	2191.884	1.6	79.448°	Site-Grotto,VID_GRAB,kind of smoke,
EVT	00/07/27	23:57:11	DLG	492632.96	5310668.72	Unknown	2191.945	1.5	79.308°	Site-Grotto,, Start Rec.,00G27251
EVT	00/07/27	23:57:25	DLG	492631.69	5310669.69	Unknown	2191.898	1.6	78.300°	Site-Grotto,going up ,,
EVT	00/07/27	23:57:48	DLG	492630.91	5310669.53	Unknown	2191.123	1.8	78.757°	Site-Grotto,VID_GRAB,west grotto,
EVT	00/07/27	23:57:58	DLG	492630.84	5310669.38	Unknown	2190.754	2.2	79.341°	Site-Grotto,VID_GRAB,flange on grotto,
EVT	00/07/27	23:58:14	DLG	492630.84	5310669.38	Unknown	2190.074	2.6	79.403°	Site-Grotto,heading 086,,
EVT	00/07/27	23:58:38	DLG	492632.42	5310668.93	Unknown	2189.109	3.6	78.891°	Site-Grotto,VID_GRAB,west wall of Grotto,
EVT	00/07/27	23:59:07	DLG	492631.17	5310670.07	Unknown	2187.990	4.8	78.803°	Site-Grotto,VID_GRAB,west wall of Grotto,
EVT	00/07/27	23:59:30	DLG	492632.64	5310669.21	Unknown	2186.883	5.5	78.955°	Site-Grotto,VID_GRAB,flange with black smoke coming out,
EVT	00/07/27	23:59:42	DLG	492632.55	5310669.03	Unknown	2186.483	5.7	78.828°	Site-Grotto,altitude about 5m
EVT	00/07/27	23:59:52	DLG	492632.55	5310669.03	Unknown	2186.044	6.2	79.127°	Site-Grotto,still going up

Event Log VIP 2000 Cruise 7/28/00										
	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/28	00:00:03	DLG	492632.29	5310669.2	Unknown	2185.678	6.3	79.228°	Site-Grotto,VID_GRAB,black smokers
EVT	00/07/28	00:01:33	DLG	492632.96	5310668.7	Unknown	2181.903	9.8	78.844°	Site-Grotto,VID_GRAB,plume over Grotto
EVT	00/07/28	00:02:43	DLG	492632.99	5310668.7	Unknown	2177.2	14.5	79.973°	Site-Grotto,VID_GRAB,plume over Grotto
EVT	00/07/28	00:02:55	DLG	492632.99	5310668.7	Unknown	2175.389	16.3	79.806°	Site-Grotto,still going up,
EVT	00/07/28	00:03:11	DLG	492631.94	5310668.5	Unknown	2172.788	9.5	79.429°	Site-Grotto,VID_GRAB,plume over Grotto
EVT	00/07/28	00:04:49	DLG	492629.53	5310670.6	Unknown	2159.28	28	80.272°	Site-Grotto,still going up,
EVT	00/07/28	00:05:16	DLG	492627.77	5310665.8	Unknown	2156.255	30	80.654°	Site-Grotto,looks like we're on the edge of the plume,
EVT	00/07/28	00:14:05	DLG	492625.74	5310670.0	Unknown	2038.851	30	79.446°	Site-Grotto,altitude about 140 m,
EVT	00/07/28	00:14:20	DLG	492625.52	5310671.1	Unknown	2035.902	30	79.556°	Site-Grotto,still seeing smoke,
EVT	00/07/28	00:19:51	DLG	492624.42	5310671.5	Unknown	1976.05	30	80.204°	Site-Grotto,altitude 200m,
EVT	00/07/28	00:20:01	DLG	492623.45	5310671.7	Unknown	1974.513	30	79.666°	Site-Grotto,stop going up,
EVT	00/07/28	00:20:08	DLG	492623.45	5310671.7	Unknown	1973.768	30	78.899°	Site-Grotto,stop recording,
EVT	00/07/28	00:20:29	DLG	492621.76	5310672.7	Unknown	1979.361	30	76.132°	Site-Grotto,shutting down SM 2000,
EVT	00/07/28	00:21:12	DLG	492620.48	5310676.4	Unknown	1982.224	30	79.002°	Site-Grotto,shutting down JKason,
EVT	00/07/28	00:21:22	DLG	492620.48	5310676.4	Unknown	1982.224	30	79.002°	Site-Grotto,Jason,
EVT	00/07/28	00:22:37	DLG	492617.07	5310677.4	Unknown	1974.452	30	60.722°	Site-Grotto,restarting SM 2000rebooting Jason,
EVT	00/07/28	00:25:52	DLG	492619.03	5310680.9	Unknown	2007.445	30	85.571°	Site-Grotto,going down,,
EVT	00/07/28	00:26:51	DLG	492625.18	5310679.4	Unknown	2026.613	30	88.467°	Site-Grotto,SM 2000's not restarted yet,,
EVT	00/07/28	00:39:10	DLG	492629.64	5310666.5	Unknown	2168.067	24.5	288.402°	Site-Grotto,turning on SM2000,,
EVT	00/07/28	00:42:21	DLG	492597.07	5310683.5	Unknown	2167.532	13.9	307.422°	Site-Grotto,, Recalibrating,
EVT	00/07/28	00:44:49	DLG	492597.84	5310684.6	Unknown	2167.574	14.5	306.845°	Site-Grotto,, Recalibrating,rotator
EVT	00/07/28	00:45:58	DLG	492593.29	5310688.8	Unknown	2167.6	14.6	307.513°	Site-Grotto,shutting SM 2000 off,,
EVT	00/07/28	00:46:42	DLG	492593.21	5310688.7	Unknown	2167.627	15	307.886°	Site-Grotto,rebooting SM 2000,,
EVT	00/07/28	00:48:27	DLG	492587.68	5310691.9	Unknown	2167.627	13.8	209.731°	Site-Grotto,, Recalibrating,rotator
EVT	00/07/28	00:53:20	DLG	492584.09	5310687.8	Unknown	2167.596	13.7	114.757°	Site-Grotto,spped of 0.4 joi gain,,
EVT	00/07/28	00:54:14	DLG	492584.2	5310687.9	Unknown	2167.579	13.9	115.276°	Site-Grotto,altitude of 17.4m,,
EVT	00/07/28	00:54:42	DLG	492586.36	5310686.3	Unknown	2165.351	16.4	114.995°	Site-Grotto,heading 118,,
EVT	00/07/28	00:59:50	DLG	492600.14	5310686.4	Unknown	2164.096	17.3	113.885°	Site-Grotto,, Start Rec.,00G28252
EVT	00/07/28	01:03:08	DLG	492614.06	5310678.3	Unknown	2165.961	22.2	104.191°	Site-Grotto,still moving on transect,,
EVT	00/07/28	01:03:17	DLG	492614.74	5310678.0	Unknown	2165.956	22.4	103.875°	Site-Grotto,constant depth,,
EVT	00/07/28	01:05:45	DLG	492624.67	5310672.5	Unknown	2165.85	21.4	103.472°	Site-Grotto,drifting a bit,,
EVT	00/07/28	01:07:26	DLG	492630.85	5310673.1	Unknown	2165.85	24.2	92.291°	Site-Grotto,over some smoke,,
EVT	00/07/28	01:08:42	DLG	492638.21	5310671.2	Unknown	2166.223	27.4	92.676°	Site-Grotto,going down a bit,
EVT	00/07/28	01:11:32	DLG	492650.15	5310668.8	Unknown	2176.999	21.1	94.544°	Site-Grotto,stop recording,
EVT	00/07/28	01:14:12	DLG	492651.56	5310672.7	Unknown	2178.915	18.3	273.534°	Site-Grotto,move's stopped ,
EVT	00/07/28	01:16:19	DLG	492651.52	5310672.4	Unknown	2178.69	18.3	273.852°	not at Grotto for a long time,,
EVT	00/07/28	01:18:39	DLG	492649.25	5310666.8	Unknown	2176.507	17.1	273.053°	now looking west ,,
EVT	00/07/28	01:19:04	DLG	492650.27	5310666.5	Unknown	2176.291	17.4	273.768°	, Start Rec.,00G28253

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/28	01:21:03	DLG	492641.17	5310669.0	Unknown	2176.343	14.4	282.900°	in a plume,,
EVT	00/07/28	01:25:12	DLG	492621.47	5310675.1	Unknown	2176.337	11.8	282.762°	, Stop Rec.,
EVT	00/07/28	01:29:15	DLG	492623.05	5310674.4	Unknown	2176.443	11.7	264.677°	
EVT	00/07/28	01:29:29	DLG	492622.98	5310674.6	Unknown	2176.336	11.5	263.600°	moving west,,
EVT	00/07/28	01:36:43	DLG	492580.67	5310670.9	Unknown	2176.348	7.9	112.150°	setting sonar,,
EVT	00/07/28	01:56:52	DLG	492581.1	5310670.9	Unknown	2176.359	8.1	97.741°	going up to altitude 9.4 m ,,
EVT	00/07/28	01:58:07	DLG	492580.84	5310670.9	Unknown	2176.328	8.2	97.514°	switch jaz disk,,
EVT	00/07/28	02:01:38	DLG	492582.03	5310671.6	Unknown	2176.338	8.2	97.206°	going down,,
EVT	00/07/28	02:08:06	DLG	492594.62	5310665.0	Unknown	2179.35	3.9	27.191°	rebooting SM 2000,,
EVT	00/07/28	02:13:20	DLG	492595.97	5310663.0	Unknown	2180.872	2.9	74.096°	VID_GRAB,crab,
EVT	00/07/28	02:17:42	DLG	492594.6	5310665.3	Unknown	2179.832	5.6	94.419°	VID_GRAB,spider crab,
EVT	00/07/28	02:21:14	DLG	492593.34	5310660.0	Unknown	2179.029	8.4	38.056°	going up to 20 m altitude,,
EVT	00/07/28	02:24:22	DLG	492590.18	5310664.6	Unknown	2168.619	7.3	299.621°	, Start Rec.,start recording profile
EVT	00/07/28	02:39:08	DLG	492585.7	5310669.1	Unknown	2166.608	19.4	64.711°	clockwise turn completed,,
EVT	00/07/28	02:40:33	DLG	492587.02	5310668.5	Unknown	2166.589	18.9	104.531°	stop recording profile,,
EVT	00/07/28	02:41:47	DLG	492586.12	5310668.8	Unknown	2166.602	18.9	104.593°	last recording was 00G28001,,
EVT	00/07/28	02:49:32	DLG	492586.71	5310669.0	Unknown	2165.691	19.7	106.909°	gyro reset,,
EVT	00/07/28	02:50:13	DLG	492586.68	5310669.3	Unknown	2165.784	19.7	106.982°	start recording profile 00G28002,,
EVT	00/07/28	02:55:06	DLG	492603.65	5310660.3	Unknown	2164.653	10.1	108.391°	Bathy Survey-,
EVT	00/07/28	02:55:13	DLG	492603.65	5310660.3	Unknown	2165.372	19.3	107.954°	Bathy Survey,,
EVT	00/07/28	03:07:54	DLG	492682.79	5310619.4	Unknown	2182.55	13.7	108.741°	Bathy Survey,Walking along a predetermined path,
EVT	00/07/28	03:08:09	DLG	492686.43	5310618.6	Unknown	2183.568	20.1	107.506°	Bathy Survey,people are not sure if they are recording data or not,
EVT	00/07/28	03:08:17	DLG	492686.43	5310618.6	Unknown	2184	19.9	127.040°	Bathy Survey,they want to check that,
EVT	00/07/28	03:17:47	DLG	492759.65	5310587.8	Unknown	2194.941	23.1	89.766°	Bathy Survey,Looks like we are near a smoker,
EVT	00/07/28	03:17:50	DLG	492759.65	5310587.8	Unknown	2194.787	23.2	84.596°	Bathy Survey,lets see,
EVT	00/07/28	03:18:56	DLG	492783.84	5310589.0	Unknown	2195.816	21	98.678°	Bathy Survey,We need to move along a straight path but we seem to have gone a bit skew,
EVT	00/07/28	03:19:04	DLG	492790.21	5310591.0	Unknown	2195.774	20.6	98.698°	Bathy Survey,the pilot is correcting that
EVT	00/07/28	03:19:09	DLG	492790.21	5310591.0	Unknown	2195.663	20.1	99.430°	Bathy Survey,seems like it
EVT	00/07/28	03:19:38	DLG	492811.82	5310592.4	Unknown	2195.549	15.9	102.372°	Bathy Survey,reached the end of line
EVT	00/07/28	03:19:48	DLG	492811.82	5310592.4	Unknown	2194.73	17.2	100.740°	Bathy Survey,closed the program
EVT	00/07/28	03:19:58	DLG	492810.17	5310594.1	Unknown	2194.644	17.1	102.731°	Bathy Survey,checking if we have the files recorded
EVT	00/07/28	03:20:03	DLG	492810.17	5310594.1	Unknown	2194.617	17	101.924°	Bathy Survey,looks fine
EVT	00/07/28	03:20:09	DLG	492810.17	5310594.1	Unknown	2194.63	17.3	99.159°	Bathy Survey,hopefully
EVT	00/07/28	03:21:54	DLG	492811.76	5310608.4	Unknown	2194.61	18.9	324.496°	Bathy Survey,Starting recording again
EVT	00/07/28	03:26:50	DLG	492809.94	5310618.1	Unknown	2189.785	25	288.255°	Bathy Survey,looks like we have some interesting data
EVT	00/07/28	03:42:51	DLG	492709.19	5310663.0	Unknown	2178.49	19.4	280.062°	Bathy Survey,nearing a smoker

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/28	03:42:58	DLG	492703.88	5310662.9	Unknown	2178.304	20.2	274.525°	Bathy Survey,lot of smoke in the view
EVT	00/07/28	03:43:16	DLG	492698.96	5310662.9	Unknown	2177.858	18.2	287.192°	Bathy Survey,there it is
EVT	00/07/28	03:43:20	DLG	492692.9	5310665.5	Unknown	2177.06	18.3	285.136°	Bathy Survey,pan left
EVT	00/07/28	03:43:30	DLG	492692.9	5310665.5	Unknown	2175.816	19.6	274.472°	Bathy Survey,inside it
EVT	00/07/28	03:45:27	DLG	492650.36	5310680.2	Unknown	2174.998	21.4	285.787°	Bathy Survey,reaching the end of the second (middle) line
EVT	00/07/28	03:45:37	DLG	492650.36	5310680.2	Unknown	2174.33	3.2	285.449°	Bathy Survey,tell you when we get therer
EVT	00/07/28	03:52:27	DLG	492586.42	5310696.7	Unknown	2166.275	15.9	320.883°	Bathy Survey,End of the second line...
EVT	00/07/28	03:52:42	DLG	492588.81	5310696.4	Unknown	2165.804	16.2	81.489°	Bathy Survey,Getting ready to start the next line
EVT	00/07/28	03:59:11	DLG	492597.48	5310686.7	Unknown	2162.234	3.7	108.942°	Bathy Survey,Starting the third line.....
EVT	00/07/28	04:02:06	DLG	492602.95	5310687.9	Unknown	2162.248	20.1	114.447°	Bathy Survey,
EVT	00/07/28	04:06:40	DLG	492619.98	5310679.3	Unknown	2167.735	22.5	109.553°	Bathy Survey,We got a little off track here running the lines...so we are going to run some filler lines
EVT	00/07/28	04:06:43	DLG	492619.98	5310679.3	Unknown	2167.707	22.9	109.454°	Bathy Survey,later
EVT	00/07/28	04:09:48	DLG	492629.45	5310678.0	Unknown	2170.192	18.8	109.554°	Bathy Survey,There is some smoke in the view
EVT	00/07/28	04:09:54	DLG	492629.45	5310678.0	Unknown	2169.772	19.4	108.942°	Bathy Survey,looks like we are near a smoker
EVT	00/07/28	04:10:08	DLG	492631.75	5310678.1	Unknown	2169.28	21.1	108.395°	Bathy Survey,maybe we are above it
EVT	00/07/28	04:11:17	DLG	492641.26	5310673.5	Unknown	2169.134	26.9	109.658°	Bathy Survey,we see some peaks on SM2000
EVT	00/07/28	04:16:15	DLG	492669.29	5310656.9	Unknown	2177.065	24	109.593°	Bathy Survey,The thin green line
EVT	00/07/28	04:30:01	DLG	492804.18	5310626.1	Unknown	2193.164	25.2	86.483°	Bathy Survey,End of the third line
EVT	00/07/28	04:30:45	DLG	492802.46	5310626.8	Unknown	2186.595	30	86.678°	Bathy Survey,Getting ready for the next line
EVT	00/07/28	04:38:15	DLG	492804.18	5310639.8	Unknown	2189.148	24.6	284.159°	Bathy Survey,Starting the next line.....
EVT	00/07/28	04:38:20	DLG	492804.18	5310639.8	Unknown	2190.246	23.6	282.585°	Bathy Survey,Changing tapes
EVT	00/07/28	04:55:52	DLG	492649.09	5310701.5	Unknown	2175.014	23.9	288.090°	Bathy Survey,nearing the end of the line
EVT	00/07/28	05:01:17	DLG	492582.94	5310716.9	Unknown	2159.302	28.1	289.583°	Bathy Survey,End of line reached
EVT	00/07/28	05:02:42	DLG	492588.79	5310703.5	Unknown	2158.935	24.2	122.730°	Bathy Survey,Going down to the south to start the next line
EVT	00/07/28	05:02:51	DLG	492588.79	5310703.5	Unknown	2161.35	21.9	123.253°	Bathy Survey,the vertical lines
EVT	00/07/28	05:03:22	DLG	492586.01	5310704.3	Unknown	2168.246	14.4	125.027°	Bathy Survey,tell you when we get there
EVT	00/07/28	05:03:24	DLG	492586.01	5310704.3	Unknown	2168.147	14.5	125.922°	Bathy Survey,
EVT	00/07/28	05:06:52	DLG	492586.04	5310691.2	Unknown	2162.161	6.4	161.392°	Bathy Survey,just saw something like a shrimp on the BRW camera
EVT	00/07/28	05:13:19	DLG	492587.17	5310643.9	Unknown	2167.254	19.1	155.319°	Bathy Survey,Still getting there
EVT	00/07/28	05:20:39	DLG	492617.87	5310577.8	Unknown	2178.047	20.5	142.473°	Bathy Survey,SM2000 crashed

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/28	05:20:43	DLG	492617.87	5310577.8	Unknown	2178.137	20.4	143.076°	Bathy Survey, restarting it
EVT	00/07/28	05:28:44	DLG	492624.01	5310492.9	Unknown	2174.937	23.4	164.619°	Bathy Survey, Restarted it
EVT	00/07/28	05:28:46	DLG	492624.01	5310492.9	Unknown	2174.904	23.4	164.745°	Bathy Survey, again
EVT	00/07/28	05:28:51	DLG	492624.1	5310488.6	Unknown	2174.81	23.5	167.015°	Bathy Survey, looks like its running fine
EVT	00/07/28	05:31:55	DLG	492627.45	5310462.1	Unknown	2177.181	19.5	147.849°	Bathy Survey, Its smoking! 1
EVT	00/07/28	05:39:01	DLG	492639.36	5310368.5	Unknown	2185.689	23.4	150.623°	Bathy Survey, Dr. Rona is taking photos of the screens
EVT	00/07/28	05:39:06	DLG	492641.16	5310365.5	Unknown	2186.401	14.6	150.302°	Bathy Survey, :-)
EVT	00/07/28	05:40:24	DLG	492643.21	5310368.2	Unknown	2190.282	18.9	114.469°	Bathy Survey, Its smoking again
EVT	00/07/28	05:40:26	DLG	492643.21	5310368.2	Unknown	2190.235	19	114.683°	Bathy Survey, a bit
EVT	00/07/28	05:41:17	DLG	492652.56	5310369.8	Unknown	2189.103	20.2	118.109°	Bathy Survey, Still getting there
EVT	00/07/28	05:44:21	DLG	492651.97	5310345.2	Unknown	2191.955	6.7	176.089°	Bathy Survey, Almost there man~
EVT	00/07/28	05:53:32	DLG	492659.3	5310308.8	Unknown	2195.206	8.1	24.342°	Bathy Survey, Starting the line
EVT	00/07/28	05:53:45	DLG	492659.3	5310308.8	Unknown	2194.373	19.7	23.381°	Bathy Survey, first one of the vertical
EVT	00/07/28	05:53:58	DLG	492658.1	5310308.9	Unknown	2194.061	19.8	23.758°	Bathy Survey, we need to turn around first
EVT	00/07/28	05:56:06	DLG	492664.6	5310327.5	Unknown	2193.633	14.7	23.481°	Bathy Survey, doing the line
EVT	00/07/28	05:56:12	DLG	492664.6	5310327.5	Unknown	2193.494	23.6	23.749°	Bathy Survey, started it earlier
EVT	00/07/28	06:17:40	DLG	492741.3	5310517.7	Unknown	2191.818	25	22.976°	Bathy Survey, Still doing the line
EVT	00/07/28	06:27:11	DLG	492779.68	5310621.7	Unknown	2194.735	23.9	22.938°	Bathy Survey, 11 more mins to change the tapes
EVT	00/07/28	06:27:24	DLG	492782.73	5310624.3	Unknown	2194.717	8.1	23.140°	Bathy Survey, var de
EVT	00/07/28	06:27:26	DLG	492782.73	5310624.3	Unknown	2194.71	21.7	23.247°	Bathy Survey,
EVT	00/07/28	06:30:46	DLG	492786.48	5310643.4	Unknown	2194.824	16	22.726°	Bathy Survey, half way through the line
EVT	00/07/28	06:39:08	DLG	492823.76	5310720.8	Unknown	2194.651	19.3	23.821°	Bathy Survey, Change of tapes
EVT	00/07/28	06:44:38	DLG	492838.41	5310782.0	Unknown	2191.914	16.3	22.350°	Bathy Survey, Reaching the end of the line shortly
EVT	00/07/28	06:46:42	DLG	492850.17	5310806.8	Unknown	2193.274	4.8	21.462°	Bathy Survey, Finishing the line
EVT	00/07/28	06:47:05	DLG	492853.85	5310813.3	Unknown	2193.048	24.1	22.558°	Bathy Survey, End of line,,
EVT	00/07/28	06:49:39	DLG	492853.07	5310813.5	Unknown	2186.772	30	12.511°	Bathy Survey, watch change,,
EVT	00/07/28	06:56:57	DLG	492828.57	5310836.2	Unknown	2186.649	5.1	136.164°	Bathy Survey, preparing to start final line,,
EVT	00/07/28	07:03:04	DLG	492813.81	5310791.1	Unknown	2186.588	29.5	183.723°	Bathy Survey, "start last North- South line (western most line, heading South 193)",,,
EVT	00/07/28	07:31:34	DLG	492718.16	5310536.7	Unknown	2186.472	29.4	218.026°	Bathy Survey, Jason now stationary on the bathy line,,
EVT	00/07/28	07:32:10	DLG	492718.41	5310536.2	Unknown	2186.522	29	207.347°	Bathy Survey,, Stop Rec.,
EVT	00/07/28	07:32:35	DLG	492720.68	5310532.3	Unknown	2186.683	24.4	210.656°	Bathy Survey, waiting for Medea to come into stable position,,
EVT	00/07/28	07:33:08	DLG	492716.36	5310520.9	Unknown	2186.511	25.9	218.161°	Bathy Survey, preparing for calibration spin,,
EVT	00/07/28	07:33:35	DLG	492717.43	5310517.1	Unknown	2186.469	28	217.991°	Bathy Survey,, Start Rec., calibration spin

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EVT	00/07/28	07:36:07	DLG	492722.93	5310518.0	Unknown	2186.455	4.7	353.146°	Bathy Survey,in clockwise calibration spin,,
EVT	00/07/28	07:38:38	DLG	492722.93	5310518.7	Unknown	2186.393	26.8	299.404°	Bathy Survey,finished clockwise calibration spin,,
EVT	00/07/28	07:38:52	DLG	492722.93	5310518.7	Unknown	2186.44	20.9	281.719°	Bathy Survey,starting counterclockwise calibration spin,,
EVT	00/07/28	07:42:39	DLG	492722.45	5310518.2	Unknown	2186.393	27.9	200.745°	Bathy Survey,finished counterclockwise calibration spin,,
EVT	00/07/28	07:42:51	DLG	492722.45	5310518.2	Unknown	2186.433	28.2	209.453°	Bathy Survey,, Stop Rec.,
EVT	00/07/28	07:50:53	DLG	492702.43	5310534	Unknown	2186.399	26.5	289.052°	Bathy Survey,"problems with SM2000 computer, tried restarting, ended up having to reset the computer (Windows Explorer encountered a fatal error that quickly became chronic...)",,
EVT	00/07/28	07:52:17	DLG	492692.75	5310540.3	Unknown	2186.393	27.5	303.973°	Bathy Survey,"computer seemed to check out, didn't seem to lose any data (phew!!!)",,
EVT	00/07/28	07:53:27	DLG	492692.01	5310542.8	Unknown	2186.473	27.8	302.442°	Site - S&M,in transit to S&M,
EVT	00/07/28	08:00:45	DLG	492638.81	5310562.3	Unknown	2186.464	11.3	297.030°	Site - S&M,restarting SM2000 software (rotator not responding),
EVT	00/07/28	08:06:59	DLG	492629.16	5310561.1	Unknown	2195.006	2.5	166.106°	Site - S&M,"arrived S&M, now looking for the pinnacle landing perch to acoustically image S&M",
EVT	00/07/28	08:07:51	DLG	492630.34	5310562.2	Unknown	2195.037	2.1	275.665°	Site - S&M,planning to land on an extinct smoker approximately 35 metres (west) of S&M to carry out acoustic imaging of S&M,
EVT	00/07/28	08:15:53	DLG	492609.99	5310555.2	Unknown	2195.843	2.6	237.510°	Site - S&M,VID_GRAB,"unidentified object on seafloor, seems to be line"
EVT	00/07/28	08:25:17	DLG	492627.43	5310534.2	Unknown	2194.564	2.7	62.022°	Site - S&M,VID_GRAB,instruments on S&M
EVT	00/07/28	08:27:32	DLG	492631.05	5310534.5	Unknown	2192.271	5	67.524°	Site - S&M,"still looking for ""Peter's Perch""",
EVT	00/07/28	08:30:06	DLG	492627.61	5310536.1	Unknown	2192.347	5	1.580°	Site - S&M,starting up the SM2000 to try and get a lock on Peter's Perch,
EVT	00/07/28	08:35:56	DLG	492628.19	5310532.4	Unknown	2192.774	4.3	95.309°	Site - S&M,restarting SM2000 software,
EVT	00/07/28	08:36:06	DLG	492628.19	5310532.2	Unknown	2192.365	4.3	58.389°	Site - S&M,SM2000 back online,
EVT	00/07/28	08:36:24	DLG	492628.58	5310533.0	Unknown	2191.947	4.7	62.707°	Site - S&M,S&M sited,
EVT	00/07/28	08:41:41	DLG	492640.61	5310528.3	Unknown	2184.11	12.1	153.702°	Site - S&M,tape change,
EVT	00/07/28	08:42:20	DLG	492641.26	5310527.4	Unknown	2182.838	13.8	166.896°	Site - S&M,VID_GRAB,S&M planned imaging target
EVT	00/07/28	08:50:52	DLG	492636.6	5310530.7	Unknown	2182.481	14.2	146.516°	Site - S&M,VID_GRAB,S&M smoking

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/28	08:52:38	DLG	492640.35	5310534.4	Unknown	2185.951	10.7	344.982°	Site - S&M,venting depth as of last event log,
EVT	00/07/28	08:53:03	DLG	492640.35	5310534.4	Unknown	2186.963	9.9	344.996°	Site - S&M,had cheerio shapes on aft camera on video decks 1 and 3,
EVT	00/07/28	08:54:47	DLG	492637.08	5310535.0	Unknown	2192.447	4.6	239.037°	Site - S&M,VID_GRAB,interesting creature just appeared,,,
EVT	00/07/28	08:57:17	DLG	492610.5	5310532.9	Unknown	2196.282	1.6	264.905°	Site - S&M,VID_GRAB,markers near S&M,,,
EVT	00/07/28	09:00:18	DLG	492610.5	5310532.9	Unknown	2195.201	3.9	264.621°	Site - S&M,VID_GRAB,sited Peter's Perch... we think,,,
EVT	00/07/28	09:03:18	DLG	492587.82	5310535.5	Unknown	2194.681	4.4	264.560°	Site - S&M,"perch too narrow, looking for alternate",,,,
EVT	00/07/28	09:03:45	DLG	492586.87	5310534.2	Unknown	2194.608	4.3	265.510°	Site - S&M,VID_GRAB,"instruments near the perch, line going up from one",,,,
EVT	00/07/28	09:04:25	DLG	492586.99	5310534.2	Unknown	2194.633	4.2	265.412°	Site - S&M,VID_GRAB,more instruments near Peter's Perch,,,
EVT	00/07/28	09:14:55	DLG	492598.7	5310534.8	Unknown	2193.806	3.7	88.296°	Site - S&M,VID_GRAB,interesting looking 'worm' like creature came into view on video,,,
EVT	00/07/28	09:22:21	DLG	492602.45	5310546.1	Unknown	2194.71	3.3	293.030°	Site - S&M,"abandoning search for landing perch, continuing on to perform diffuse flow sonar imaging surveys",,,,
EVT	00/07/28	09:26:05	DLG	492602.03	5310545.3	Unknown	2194.698	3.4	292.639°	D5 Prime,preparing to perform diffuse flow sonar imaging survey in the South Main Endeavour Field North of Bastille complex and West of S&M,,,,
EVT	00/07/28	09:36:08	DLG	492603.54	5310545.7	Unknown	2177.638	19.9	12.396°	D5 Prime,moving Medea into position north of S&M to begin diffuse sonar imaging grid at an altitude of about 25 metres,,,,
EVT	00/07/28	10:05:41	DLG	492631.99	5310545.2	Unknown	2172.082	24.2	199.776°	D5 Prime,starting diffuse sonar imaging grid,,,,
EVT	00/07/28	10:06:10	DLG	492632.83	5310544.9	Unknown	2171.889	24.5	203.642°	D5 Prime,, DIFFUSE,, Start Rec.,D5 00G28254
EVT	00/07/28	10:07:03	DLG	492637.53	5310552.9	Unknown	2171.955	24.6	202.496°	D5 Prime,backing up Jason to beginning of grid,,,,
EVT	00/07/28	10:07:41	DLG	492638.99	5310557.1	Unknown	2171.829	25	199.612°	D5 Prime,start survey grid,,,,
EVT	00/07/28	10:08:43	DLG	492636.31	5310551.9	Unknown	2172.13	24.2	198.280°	D5 Prime,adjusted Jason joy gain to 0.2,,,,
EVT	00/07/28	10:12:49	DLG	492625.87	5310513.0	Unknown	2172.241	23.5	197.603°	D5 Prime,"finished line, backing up line to repeat it",,,,
EVT	00/07/28	10:13:02	DLG	492629.04	5310513.7	Unknown	2172.09	23.3	198.179°	D5 Prime,, Stop Rec.,,,
EVT	00/07/28	10:13:52	DLG	492629.47	5310515.7	Unknown	2172.197	23.4	199.720°	D5 Prime,, DIFFUSE,, Start Rec.,00G28255 D5 (backing up to repeat first grid line)

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EVT	00/07/28	10:14:12	DLG	492632.24	5310514.9	Unknown	2171.962	23.7	201.944°	D5 Prime,resumed backing up,,,
EVT	00/07/28	10:15:10	DLG	492633.56	5310525.8	Unknown	2171.077	24.2	185.223°	D5 Prime,VID_GRAB,getting smoke in the field of view,,
EVT	00/07/28	10:16:39	DLG	492638.04	5310557.5	Unknown	2172.035	24.7	196.774°	D5 Prime,, Stop Rec.,,,
EVT	00/07/28	10:16:48	DLG	492638.04	5310557.5	Unknown	2171.928	24.8	202.263°	D5 Prime,finished line,,,
EVT	00/07/28	10:17:19	DLG	492632.05	5310556.2	Unknown	2172.028	24.1	201.970°	D5 Prime,setting up for new line parallel to first,,,
EVT	00/07/28	10:17:44	DLG	492632.05	5310556.2	Unknown	2172.068	23.7	201.918°	D5 Prime,, DIFFUSE,, Start Rec.,00G28256
EVT	00/07/28	10:21:02	DLG	492609.1	5310516.2	Unknown	2172.023	21.3	200.285°	D5 Prime,, Stop Rec.,,,
EVT	00/07/28	10:21:38	DLG	492612.36	5310513.7	Unknown	2171.954	21.6	199.889°	D5 Prime,, DIFFUSE,, Start Rec.,00G28257 (redoing line done for previous file)
EVT	00/07/28	10:22:52	DLG	492616.68	5310522.5	Unknown	2171.961	23.9	202.853°	D5 Prime,VID_GRAB,smoke spotted,,,
EVT	00/07/28	10:25:04	DLG	492630.05	5310547.0	Unknown	2172.094	23.9	199.683°	D5 Prime,, Stop Rec.,,,
EVT	00/07/28	10:32:03	DLG	492622.26	5310547.8	Unknown	2172.05	23.6	208.303°	D5 Prime,running another grid line to look for Peter's Perch with SM2000,,,
EVT	00/07/28	10:54:21	DLG	492589.47	5310540.7	Unknown	2195.219	2.5	219.658°	D5 Prime,VID_GRAB,gamma detector,,,
EVT	00/07/28	10:56:27	DLG	492589.35	5310541.0	Unknown	2195.277	2.5	213.916°	D5 Prime,holding position,,,
EVT	00/07/28	11:01:00	DLG	492588.98	5310539.6	Unknown	2195.07	2.5	213.023°	rebooting SM 2000,,,
EVT	00/07/28	11:03:09	DLG	492588.91	5310540.9	Unknown	2195.086	2.6	210.808°	VID_GRAB,experiments,
EVT	00/07/28	11:04:36	DLG	492584.3	5310539.5	Unknown	2195.13	3	212.524°	rebooting SN 2000,,
EVT	00/07/28	11:04:42	DLG	492585.37	5310538.4	Unknown	2195.106	3	212.789°	S,,
EVT	00/07/28	11:04:49	DLG	492585.37	5310538.4	Unknown	2195.072	3	212.988°	SM 2000,,
EVT	00/07/28	11:05:40	DLG	492583.49	5310538.7	Unknown	2195.08	3	223.383°	VID_GRAB,some piece of equipment,
EVT	00/07/28	11:06:50	DLG	492584.98	5310539.3	Unknown	2195.532	2.5	223.279°	VID_GRAB,experiments,
EVT	00/07/28	11:07:14	DLG	492583.2	5310539.5	Unknown	2195.512	2.6	213.714°	VID_GRAB,currentmetre or something,
EVT	00/07/28	11:07:29	DLG	492583.68	5310539.4	Unknown	2195.492	2.6	208.175°	VID_GRAB,probes ,
EVT	00/07/28	11:08:59	DLG	492583.3	5310539.6	Unknown	2195.326	2.7	178.525°	VID_GRAB,equipment,
EVT	00/07/28	11:10:18	DLG	492582.9	5310539.4	Unknown	2195.754	2.3	186.767°	VID_GRAB,diffuse flow,
EVT	00/07/28	11:11:53	DLG	492584.52	5310539.6	Unknown	2195.801	2.2	186.878°	looking at the northern part of Bastille,,
EVT	00/07/28	11:12:03	DLG	492583.93	5310539.3	Unknown	2195.774	2.3	193.286°	, Recalibrating,rotator
EVT	00/07/28	11:15:53	DLG	492582.8	5310540.3	Unknown	2195.821	2.2	204.431°	VID_GRAB,instrument,
EVT	00/07/28	11:22:33	DLG	492583.61	5310540.4	Unknown	2195.76	2.2	224.667°	restart the computer,,
EVT	00/07/28	11:23:36	DLG	492582.89	5310539.7	Unknown	2195.754	2.5	175.821°	rebooting SM 2000,,
EVT	00/07/28	11:25:47	DLG	492582.84	5310539.7	Unknown	2189.042	8.9	176.522°	, Recalibrating,rotator
EVT	00/07/28	11:26:59	DLG	492582.51	5310539.3	Unknown	2181.898	16.2	175.447°	going up,,
EVT	00/07/28	11:28:03	DLG	492582.41	5310540.0	Unknown	2175.645	21.8	177.911°	20 m altitude ,,
EVT	00/07/28	11:28:10	DLG	492582.41	5310540.0	Unknown	2175.783	21.9	176.266°	moving 5 m north,,
EVT	00/07/28	11:29:48	DLG	492582.15	5310544.2	Unknown	2175.798	22.1	176.495°	move completed,,
EVT	00/07/28	11:34:48	DLG	492582.68	5310544.6	Unknown	2175.589	22.3	176.600°	, Start Rec., D5 00G28258
EVT	00/07/28	11:35:19	DLG	492582.59	5310543.7	Unknown	2176.042	22.7	183.777°	moving south,,
EVT	00/07/28	11:46:46	DLG	492580.44	5310519.3	Unknown	2177.661	16.8	165.395°	moving at a speed of 0.2,,
EVT	00/07/28	11:49:42	DLG	492582.28	5310511.7	Unknown	2177.638	13.7	160.642°	trying to keep constant altitude,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/28	11:51:57	DLG	492584.12	5310505.7	Unknown	2177.752	17.3	160.871°	going up,,
EVT	00/07/28	11:55:56	DLG	492583.53	5310497.5	Unknown	2177.677	18.5	165.203°	stable at about 20m altitude,,
EVT	00/07/28	12:00:56	DLG	492585.03	5310493.7	Unknown	2177.788	17.3	166.009°	move's completed,,
EVT	00/07/28	12:05:09	DLG	492577.06	5310493.5	Unknown	2177.775	20.1	166.099°	moving 10 m west,,
EVT	00/07/28	12:05:45	DLG	492575.35	5310493.1	Unknown	2177.702	20.7	166.299°	last recording was stopped at 12:00,,
EVT	00/07/28	12:06:33	DLG	492575.72	5310493.6	Unknown	2177.775	20.6	165.626°	move done,,
EVT	00/07/28	12:06:50	DLG	492574.09	5310493.5	Unknown	2177.75	20.5	165.771°	turning toward north,,
EVT	00/07/28	12:07:01	DLG	492575.36	5310492.8	Unknown	2177.728	20.4	165.498°	, Start Rec.,00G28259
EVT	00/07/28	12:09:12	DLG	492575.13	5310498.0	Unknown	2177.797	21	165.254°	, Start Rec.,00G28260
EVT	00/07/28	12:10:03	DLG	492573.88	5310500.9	Unknown	2177.726	20.5	165.430°	moving north while looking south,,
EVT	00/07/28	12:28:10	DLG	492572.82	5310544.0	Unknown	2177.615	19	174.554°	50m move completed,,
EVT	00/07/28	12:28:40	DLG	492572.53	5310543.0	Unknown	2177.685	19.1	175.145°	tunring east,,
EVT	00/07/28	12:29:09	DLG	492572.04	5310543.6	Unknown	2177.799	19.1	177.300°	moving 20 m east,,
EVT	00/07/28	12:31:34	DLG	492577.94	5310542.7	Unknown	2177.786	20.1	176.859°	we're still looking south,,
EVT	00/07/28	12:33:38	DLG	492583.76	5310542.0	Unknown	2177.719	19.8	176.703°	doing a lateral move,,
EVT	00/07/28	12:37:51	DLG	492592.61	5310540.8	Unknown	2177.741	19.5	175.740°	east move done,,
EVT	00/07/28	12:38:14	DLG	492593.28	5310540.8	Unknown	2177.794	19.5	170.485°	, Start Rec.,00G28261
EVT	00/07/28	12:38:30	DLG	492593.28	5310540.8	Unknown	2177.794	19.7	169.975°	moving south,,
EVT	00/07/28	12:54:01	DLG	492587.01	5310501.7	Unknown	2177.662	15.7	174.628°	over a plume,,
EVT	00/07/28	12:57:08	DLG	492592.05	5310495.2	Unknown	2177.766	18.7	174.589°	50 m move south done,,
EVT	00/07/28	12:57:17	DLG	492592.05	5310495.2	Unknown	2177.726	18.8	174.562°	moving 10m east,,
EVT	00/07/28	12:58:38	DLG	492591.9	5310491.1	Unknown	2177.711	17.2	174.669°	not moving east yet,,
EVT	00/07/28	13:00:55	DLG	492592.33	5310489.7	Unknown	2177.788	17.9	139.860°	going up to 2m altitudeturningn around 180,,
EVT	00/07/28	13:01:25	DLG	492593.39	5310489.4	Unknown	2177.715	18.4	92.771°	it is 20m altitude,,
EVT	00/07/28	13:03:11	DLG	492592.42	5310490.4	Unknown	2177.479	16.2	354.564°	moving 10 m east,,
EVT	00/07/28	13:03:24	DLG	492593.22	5310489.7	Unknown	2177.428	16.5	355.711°	recording was stopped earlier,,
EVT	00/07/28	13:05:31	DLG	492602.48	5310490.6	Unknown	2177.615	13.2	354.929°	lateral move completed,,
EVT	00/07/28	13:07:22	DLG	492604.19	5310490.6	Unknown	2175.699	14.7	355.957°	, Start Rec.,00G28262
EVT	00/07/28	13:07:30	DLG	492604.19	5310490.6	Unknown	2175.752	15.1	355.689°	moving north,,
EVT	00/07/28	13:08:40	DLG	492603.83	5310493.0	Unknown	2175.718	16.7	355.435°	speed still 0.2 joy gain,,
EVT	00/07/28	13:12:18	DLG	492606.59	5310501.3	Unknown	2175.694	7.1	355.500°	VID_GRAB,needle just in front,
EVT	00/07/28	13:12:42	DLG	492604.75	5310502.4	Unknown	2175.703	7.2	355.272°	we're going up to avoid needle ,,
EVT	00/07/28	13:13:25	DLG	492606.08	5310504.3	Unknown	2174.807	9.4	355.319°	VID_GRAB,top of Needle,
EVT	00/07/28	13:16:34	DLG	492607.45	5310509.7	Unknown	2171.727	17.6	356.263°	smoke coming out of Needle,,
EVT	00/07/28	13:16:44	DLG	492607.3	5310511.5	Unknown	2171.733	17.1	356.365°	we're over Needle,,
EVT	00/07/28	13:19:05	DLG	492608.64	5310516.3	Unknown	2171.712	14.8	350.840°	going down a bit,,
EVT	00/07/28	13:20:10	DLG	492608.52	5310518.4	Unknown	2173.333	17.1	345.216°	in order not to loose the bottom witj the sonar,,
EVT	00/07/28	13:30:20	DLG	492604.8	5310541.5	Unknown	2173.796	22.7	344.909°	50 m line done,,
EVT	00/07/28	13:31:34	DLG	492604.65	5310541.0	Unknown	2178.187	18.2	265.886°	stop recording,,
EVT	00/07/28	13:31:52	DLG	492604.65	5310541.0	Unknown	2179.937	16.5	269.799°	setting sonar,,
EVT	00/07/28	13:32:11	DLG	492604.09	5310541.2	Unknown	2180.723	15.7	270.357°	going to 15m altitude,,
EVT	00/07/28	13:32:20	DLG	492604.32	5310540.8	Unknown	2181.181	15.2	271.275°	heading west,,
EVT	00/07/28	13:33:00	DLG	492605.07	5310541.3	Unknown	2181.568	12.6	268.693°	stable,,
EVT	00/07/28	13:33:34	DLG	492605.02	5310540.6	Unknown	2181.927	14.4	269.491°	going down to 10 m altitude,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/28	13:36:39	DLG	492604.51	5310540.7	Unknown	2186.78	9.8	271.460°	, Start Rec.,00G28263
EVT	00/07/28	13:39:22	DLG	492601.78	5310546.5	Unknown	2186.773	9.8	270.967°	, Stop Rec.,
EVT	00/07/28	13:39:48	DLG	492603.39	5310540.8	Unknown	2186.733	10	225.907°	turning towards SW,,
EVT	00/07/28	13:41:23	DLG	492604.05	5310540.5	Unknown	2186.766	10.1	221.226°	, Start Rec.,00G28264
EVT	00/07/28	13:45:37	DLG	492604.87	5310541.0	Unknown	2186.769	10.1	221.051°	, Stop Rec.,
EVT	00/07/28	13:46:15	DLG	492602.9	5310540.6	Unknown	2186.728	10.1	206.983°	turning to due south,,
EVT	00/07/28	13:47:33	DLG	492605.19	5310540.7	Unknown	2186.742	10.1	174.513°	setting sonar,,
EVT	00/07/28	13:48:21	DLG	492604.5	5310541.0	Unknown	2186.735	10.1	174.192°	, Start Rec.,00G28265
EVT	00/07/28	13:52:46	DLG	492604.68	5310540.8	Unknown	2186.695	10.2	174.489°	looking to Needle 25 m ahead,,
EVT	00/07/28	13:53:45	DLG	492605.32	5310540.2	Unknown	2186.698	10.2	174.662°	, Stop Rec.,
EVT	00/07/28	13:54:37	DLG	492603.89	5310540.7	Unknown	2186.688	10.5	109.070°	coming up-record setting dive 283 is done,,
EVT	00/07/28	15:26:07	DLG	491986.98	5310501.6	Unknown	4.904	30	133.582°	NOTE: for this dive (283) the heading is off - add 41 degrees to heading data,,
EVT	00/07/28	15:26:13	DLG	491986.98	5310501.6	Unknown	4.115	30	150.242°	medea at surface
EVT	00/07/28	15:26:31	DLG	491963.5	5310587.1	Unknown	3.119	30	131.027°	jason on surface
EVT	00/07/28	15:28:22	DLG	491963.5	5310587.1	Unknown	3.936	30	104.653°	heading offset means the 24 hour data was probably Grotto rather than Lobo medea on deck
EVT	00/07/28	15:29:25	DLG	491963.5	5310587.1	Unknown	4.912	30	82.030°	
EVT	00/07/28	15:34:04	DLG	491963.5	5310587.1	Unknown	7.652	30	53.422°	jason powered down
EVT	00/07/28	15:36:13	DLG	491963.5	5310587.1	Unknown	7.652	30	53.422°	VID_GRAB
EVT	00/07/28	15:37:56	DLG	491963.5	5310587.1	Unknown	7.652	30	53.422°	jason on deck
EVT	00/07/28	19:19:45	DLG	491963.5	5310587.1	Unknown	-1.797	0	352.307°	Disregard notes about 40 degree heading offset
EVT	00/07/28	21:48:48	DLG	491963.5	5310587.1	Unknown	-1.35	0	7.135°	predive for JAS-284
EVT	00/07/28	21:48:57	DLG	491963.5	5310587.1	Unknown	-1.35	0	7.135°	Imagenex not on vehicle

Event Log VIP 2000 Cruise 7/29/00										
	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	01:17:12	DLG	491963.50	5310587.13	Unknown	0.745	30	180.312°	Jason in water,
EVT	00/07/29	01:20:38	DLG	491963.50	5310587.13	Unknown	0.851	1.8	100.941°	VID_GRAB,Jason on surface
EVT	00/07/29	01:20:52	DLG	491963.50	5310587.13	Unknown	0.791	1.9	105.335°	Medea in water,
EVT	00/07/29	01:21:16	DLG	618110.87	5259923.99	Unknown	0.925	1.7	100.933°	starting down,
EVT	00/07/29	01:52:20	DLG	493171.65	5310651.03	Unknown	404.252	30	79.648°	testing temperature probe - not working
EVT	00/07/29	01:52:31	DLG	493171.65	5310651.03	Unknown	404.194	30	72.890°	Stopped at 400m,
EVT	00/07/29	01:55:18	DLG	493139.25	5310646.56	Unknown	404.144	30	72.539°	recovering vehicle - T probe not working,
EVT	00/07/29	02:16:47	DLG	492662.22	5310716.79	Unknown	1.558	30	76.617°	medea out of water,
EVT	00/07/29	02:20:36	DLG	492678.32	5310689.80	Unknown	4.399	30	150.303°	VID_GRAB,JASon at surface looking aft
EVT	00/07/29	02:23:32	DLG	492566.43	5310743.67	Unknown	5.088	30	77.034°	Jason on deck,
EVT	00/07/29	06:53:21	DLG	492566.43	5310743.67	Unknown	-0.035	30	185.253°	Begin JAS-285,
EVT	00/07/29	06:55:39	DLG	492566.43	5310743.67	Unknown	0.604	30	176.507°	Jason in water,
EVT	00/07/29	06:58:29	DLG	492566.43	5310743.67	Unknown	1.005	30	106.625°	Medea in water,
EVT	00/07/29	07:17:53	DLG	493340.86	5310825.39	Unknown	324.011	30	52.499°	VID_GRAB,little fish observed in water column on descent
EVT	00/07/29	07:20:53	DLG	493358.14	5310827.19	Unknown	382.015	30	48.724°	VID_GRAB,jelly fish on our descent
EVT	00/07/29	07:21:41	DLG	493527.02	5311390.06	Unknown	395.407	30	50.777°	VID_GRAB,jellylike animal
EVT	00/07/29	08:13:48	DLG	493080.95	5310750.32	Unknown	1435.958	30	75.058°	VID_GRAB,,
EVT	00/07/29	08:36:59	DLG	492739.37	5310680.25	Unknown	1875.995	30	47.688°	entered plume,,
EVT	00/07/29	08:37:43	DLG	492731.25	5310679.30	Unknown	1890.553	29.7	47.862°	start video recording,,
EVT	00/07/29	08:54:47	DLG	492624.71	5310672.55	Unknown	2094.408	30	338.146°	maneouvering into position,,
EVT	00/07/29	09:17:27	DLG	492620.16	5310668.64	Unknown	2180.766	3.1	93.980°	established visual contact with bottom,,
EVT	00/07/29	09:27:54	DLG	492622.72	5310673.79	Unknown	2185.818	3.4	92.960°	, DIFFUSE,moving into position for temperature measurements
EVT	00/07/29	09:31:58	DLG	492628.39	5310673.45	Unknown	2190.315	2.1	95.385°	Site - Grotto,VID_GRAB,west face north tower base of Grotto
EVT	00/07/29	09:32:31	DLG	492628.39	5310673.45	Unknown	2191.720	0.7	87.156°	Site - Grotto,VID_GRAB,"north tower, west face, base"
EVT	00/07/29	09:32:56	DLG	492630.37	5310673.82	Unknown	2191.267	1.2	89.432°	Site - Grotto,VID_GRAB,diffuse flow observed under ledge at top of screen
EVT	00/07/29	09:34:17	DLG	492629.03	5310673.93	Unknown	2191.052	1.5	102.303°	Site - Grotto,"preparing to move in for temp measurements under ledge on base of north tower, west face",
EVT	00/07/29	09:34:38	DLG	492628.20	5310674.78	Unknown	2191.072	1.7	124.301°	Site - Grotto,parking Jason against tower,
EVT	00/07/29	09:35:56	DLG	492630.30	5310674.84	Unknown	2190.770	2.4	127.601°	Site - Grotto,"plan to take measurement first with high temp probe, then if temp low enough, place Kyohiko's probe in for measurement",
EVT	00/07/29	09:37:32	DLG	492607.44	5310671.10	Unknown	2190.327	2.5	88.684°	Site - Grotto,VID_GRAB,parked against tower
EVT	00/07/29	09:37:50	DLG	492607.44	5310671.10	Unknown	2190.327	2.5	88.474°	Site - Grotto,VID_GRAB,grabbing temp probe

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	09:41:12	DLG	492607.44	5310671.10	Unknown	2190.318	2.5	88.480°	Site - Grotto,VID_GRAB,measurement under flange on north tower (temp ~ 335C)
EVT	00/07/29	09:41:56	DLG	492607.44	5310671.10	Unknown	2190.294	2.5	88.367°	Site - Grotto,VID_GRAB,taking measurement under flange (remaining constant at 335C)
EVT	00/07/29	09:42:18	DLG	492607.44	5310671.10	Unknown	2190.313	2.5	88.235°	Site - Grotto,finished logging,
EVT	00/07/29	09:43:31	DLG	492607.44	5310671.10	Unknown	2190.303	2.5	88.719°	Site - Grotto,"NOTE: temperatures being logged here are uncorrected for ambient, require correction in post-processing",
EVT	00/07/29	09:44:29	DLG	492607.44	5310671.10	Unknown	2190.256	2.5	88.433°	Site - Grotto,VID_GRAB,"start logging, just above flange on north tower"
EVT	00/07/29	09:46:13	DLG	492607.44	5310671.10	Unknown	2190.258	2.5	88.447°	Site - Grotto,finished logging (variable temps around 7-13 C),
EVT	00/07/29	09:47:05	DLG	492607.44	5310671.10	Unknown	2190.271	2.5	88.269°	Site - Grotto,temp probe was touching rock,
EVT	00/07/29	09:47:20	DLG	492607.44	5310671.10	Unknown	2190.285	2.5	88.289°	Site - Grotto,VID_GRAB,restart logging with probe slightly off rock
EVT	00/07/29	09:47:37	DLG	492607.44	5310671.10	Unknown	2190.238	2.5	88.345°	Site - Grotto,finish logging,
EVT	00/07/29	09:49:15	DLG	492607.44	5310671.10	Unknown	2190.264	2.5	88.468°	Site - Grotto,preparing to place Kyohiko's temp probe in diffuse flow above flange,
EVT	00/07/29	09:50:15	DLG	492607.44	5310671.10	Unknown	2190.305	2.5	87.869°	Site - Grotto,VID_GRAB,opening the instrument basket
EVT	00/07/29	09:50:56	DLG	492607.44	5310671.10	Unknown	2190.271	2.5	88.446°	Site - Grotto,VID_GRAB,grabbing Kyo's temp probe
EVT	00/07/29	09:53:59	DLG	492607.44	5310671.10	Unknown	2190.215	2.5	88.905°	Site - Grotto,can't get same position with Kyo's probe as with High T probe,
EVT	00/07/29	09:56:19	DLG	492607.44	5310671.10	Unknown	2189.506	2.8	99.095°	Site - Grotto,repositioning Jason to be able to get better position for Kyo's probe,
EVT	00/07/29	09:58:55	DLG	492627.49	5310674.69	Unknown	2189.439	2.7	98.510°	Site - Grotto,VID_GRAB,placing Kyo's probe back in basket
EVT	00/07/29	10:01:49	DLG	492628.33	5310674.61	Unknown	2189.437	2.7	98.995°	Site - Grotto,VID_GRAB,Kyo's probe back in basket
EVT	00/07/29	10:11:44	DLG	492628.09	5310674.09	Unknown	2189.822	2.7	91.043°	Site - Grotto,VID_GRAB,pulling Kyo's probe from basket
EVT	00/07/29	10:12:15	DLG	492628.09	5310674.09	Unknown	2189.782	2.8	91.565°	Site - Grotto,VID_GRAB,moving Kyo's probe into position
EVT	00/07/29	10:14:24	DLG	492624.45	5310675.31	Unknown	2189.187	3.2	93.744°	Site - Grotto,VID_GRAB,bed of Alvinellid worms in diffuse flow above flange
EVT	00/07/29	10:14:50	DLG	492624.45	5310675.31	Unknown	2189.298	3.2	93.268°	Site - Grotto,VID_GRAB,Kyo's probe in position in diffuse flow
EVT	00/07/29	10:16:01	DLG	492624.49	5310675.34	Unknown	2189.430	3.3	92.528°	Site - Grotto,VID_GRAB,slightly repositioned

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	10:17:17	DLG	492622.90	5310674.43	Unknown	2189.477	3.5	92.582°	Site - Grotto,VID_GRAB,repositioned to be just at surface of worms
EVT	00/07/29	10:19:19	DLG	492622.90	5310674.43	Unknown	2189.404	3.3	91.972°	Site - Grotto,removed Kyo's probe from flange (stopped sampling with Kyo's probe on diffuse flow field),
EVT	00/07/29	10:20:22	DLG	492622.90	5310674.43	Unknown	2189.462	3.2	92.352°	Site - Grotto,,
EVT	00/07/29	10:23:29	DLG	492622.90	5310674.43	Unknown	2189.486	3.5	91.788°	Site - Grotto,tape change,
EVT	00/07/29	10:24:25	DLG	492622.90	5310674.43	Unknown	2189.024	3.3	94.959°	Site - Grotto,identifying an Alvinellid sampling site,
EVT	00/07/29	10:28:52	DLG	492622.31	5310674.50	Unknown	2189.439	3.5	95.248°	Site - Grotto,VID_GRAB,"selected a sampling site, manipulator arm attempting to sample"
EVT	00/07/29	10:29:20	DLG	492624.80	5310676.64	Unknown	2189.416	3.5	94.703°	Site - Grotto,unsuccessful sampling attempt,
EVT	00/07/29	10:33:53	DLG	492630.17	5310674.26	Unknown	2187.970	4.3	84.339°	Site - Grotto,VID_GRAB,spire possibly for sampling
EVT	00/07/29	10:35:37	DLG	492630.21	5310673.95	Unknown	2188.056	4.4	60.843°	Site - Grotto,VID_GRAB,sampled spire
EVT	00/07/29	10:35:45	DLG	492630.21	5310673.95	Unknown	2187.950	4.4	61.391°	Site - Grotto,VID_GRAB,spire removed
EVT	00/07/29	10:36:10	DLG	492630.21	5310673.95	Unknown	2188.014	4.2	61.162°	Site - Grotto,VID_GRAB,spire being placed in bio box
EVT	00/07/29	10:37:06	DLG	492630.21	5310673.95	Unknown	2187.974	4.3	61.365°	Site - Grotto,VID_GRAB,spire in basket
EVT	00/07/29	10:37:28	DLG	492630.21	5310673.95	Unknown	2188.047	4.3	61.078°	Site - Grotto,"sulphide sample 1 from northern tower, west face",
EVT	00/07/29	10:38:00	DLG	492630.21	5310673.95	Unknown	2187.994	4.3	60.851°	Site - Grotto,VID_GRAB,sampling site as shown on pencil camera (video decks 1 and 3)
EVT	00/07/29	10:39:17	DLG	492630.21	5310673.95	Unknown	2188.085	4.2	61.409°	Site - Grotto,VID_GRAB,second sample being attempted
EVT	00/07/29	10:39:29	DLG	492630.21	5310673.95	Unknown	2187.990	3.5	61.154°	Site - Grotto,unsuccessful sample,
EVT	00/07/29	10:39:47	DLG	492630.21	5310673.95	Unknown	2188.009	4.4	61.098°	Site - Grotto,VID_GRAB,"another try, unsuccessful"
EVT	00/07/29	10:41:56	DLG	492630.21	5310673.95	Unknown	2188.297	4	63.936°	Site - Grotto,VID_GRAB,another attempted sampling
EVT	00/07/29	10:42:39	DLG	492630.21	5310673.95	Unknown	2188.188	4.2	60.842°	Site - Grotto,VID_GRAB,piece of rock balancing on manipulator arm
EVT	00/07/29	10:43:48	DLG	492630.21	5310673.95	Unknown	2188.170	4.3	60.675°	Site - Grotto,VID_GRAB,"sample 2 being placed in box, another from west face of northern tower"
EVT	00/07/29	10:46:03	DLG	492630.21	5310673.95	Unknown	2188.124	4.1	61.190°	Site - Grotto,VID_GRAB,"sample site 1 (center of screen where it's stained orange), sample 2 from flange in top right"

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	10:46:44	DLG	492630.21	5310673.95	Unknown	2188.115	4.1	61.219°	Site - Grotto,"correction to last, sample site 1 slightly to the left and below center",
EVT	00/07/29	10:53:08	DLG	492631.24	5310676.39	Unknown	2186.651	5.7	67.242°	Site - Grotto,VID_GRAB,"diffuse flow field, but worms seem dead for the most part"
EVT	00/07/29	11:03:08	DLG	492633.02	5310676.95	Unknown	2184.820	4.4	60.528°	Site - Grotto,VID_GRAB,temp probe on worms
EVT	00/07/29	11:03:32	DLG	492631.03	5310676.69	Unknown	2184.787	4.3	60.829°	Site - Grotto,start rec. temp. measures,
EVT	00/07/29	11:06:15	DLG	492630.74	5310677.96	Unknown	2184.982	4.3	60.862°	Site - Grotto,5 temp. samples taken,
EVT	00/07/29	11:07:22	DLG	492633.17	5310677.26	Unknown	2185.020	4.3	59.737°	Site - Grotto,VID_GRAB,temp measures
EVT	00/07/29	11:07:49	DLG	492630.41	5310679.06	Unknown	2184.952	4.4	59.414°	Site - Grotto,stop rec.,
EVT	00/07/29	11:15:43	DLG	492633.36	5310676.16	Unknown	2184.718	4.2	61.010°	Site - Grotto,VID_GRAB,diffuse flow
EVT	00/07/29	11:16:01	DLG	492633.31	5310676.95	Unknown	2184.704	4.2	61.395°	Site - Grotto,start rec. diffuse flow with Kyo's probe,,
EVT	00/07/29	11:19:07	DLG	492633.81	5310675.35	Unknown	2184.782	4.3	60.986°	Site - Grotto,stop recording Kyo's ,,
EVT	00/07/29	11:21:52	DLG	492633.88	5310676.20	Unknown	2184.907	4.3	61.499°	Site - Grotto,moving the probe a foot closer,,
EVT	00/07/29	11:22:45	DLG	492634.10	5310675.48	Unknown	2184.803	4.3	61.052°	Site - Grotto,VID_GRAB,2nd measure-same site,
EVT	00/07/29	11:23:48	DLG	492632.04	5310674.58	Unknown	2184.812	4.3	61.630°	Site - Grotto,start rec. Kyo's probe measures,,
EVT	00/07/29	11:25:12	DLG	492633.16	5310675.27	Unknown	2184.787	4.2	61.705°	Site - Grotto,stop rec.,,
EVT	00/07/29	11:33:25	DLG	492630.49	5310674.20	Unknown	2184.223	7.2	57.644°	Site - Grotto,VID_GRAB,serching for worm,
EVT	00/07/29	11:34:58	DLG	492629.51	5310676.77	Unknown	2184.090	7.4	57.889°	Site - Grotto,start high temp mes.,,
EVT	00/07/29	11:35:42	DLG	492633.14	5310675.82	Unknown	2184.045	7.3	57.491°	Site - Grotto,start rec.,,
EVT	00/07/29	11:36:28	DLG	492631.39	5310674.52	Unknown	2184.063	7.4	57.747°	Site - Grotto,5 data logging,,
EVT	00/07/29	11:37:51	DLG	492631.77	5310674.40	Unknown	2183.986	7.4	58.090°	Site - Grotto,start high temp mes.,,
EVT	00/07/29	11:38:32	DLG	492636.54	5310672.94	Unknown	2184.060	7.3	57.877°	Site - Grotto,350 deg C,,
EVT	00/07/29	11:39:23	DLG	492632.18	5310674.37	Unknown	2184.013	7.3	57.658°	Site - Grotto,, Stop Rec.,3 data logging
EVT	00/07/29	11:43:41	DLG	492631.25	5310674.35	Unknown	2184.103	7.4	57.779°	Site - Grotto,VID_GRAB,try sampling,
EVT	00/07/29	11:48:32	DLG	492629.03	5310674.20	Unknown	2184.121	7.8	70.389°	Site - Grotto,VID_GRAB,try sampling,
EVT	00/07/29	11:50:03	DLG	492620.59	5310673.36	Unknown	2183.944	7.8	70.266°	Site - Grotto,one small sample,,
EVT	00/07/29	11:52:46	DLG	492634.86	5310671.83	Unknown	2184.046	7.9	81.375°	Site - Grotto,moving to top,,
EVT	00/07/29	11:54:23	DLG	492628.87	5310676.07	Unknown	2182.740	8.7	87.322°	Site - Grotto,VID_GRAB,top smoker at Grotto,,
EVT	00/07/29	11:56:00	DLG	492631.98	5310674.20	Unknown	2183.459	2.4	117.328°	Site - Grotto,VID_GRAB,smoker,,
EVT	00/07/29	11:58:54	DLG	492647.14	5310669.39	Unknown	2183.517	2.3	117.770°	Site - Grotto,VID_GRAB,, Start Rec.,hightemp mes.
EVT	00/07/29	12:00:18	DLG	492646.76	5310669.55	Unknown	2183.615	2.2	117.777°	Site - Grotto,350 deg C,,
EVT	00/07/29	12:01:30	DLG	492646.76	5310669.55	Unknown	2183.661	2.3	117.999°	Site - Grotto,, Stop Rec.,15 data logged,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	12:02:49	DLG	492646.76	5310669.55	Unknown	2183.748	2.2	118.002°	Site - Grotto,VID_GRAB, high temp mes. on the worm,,
EVT	00/07/29	12:03:20	DLG	492646.76	5310669.55	Unknown	2183.688	2.3	118.150°	Site - Grotto,"4-5 deg C, 7 data logged",,,
EVT	00/07/29	12:05:04	DLG	492631.58	5310677.73	Unknown	2183.786	2.3	118.122°	Site - Grotto,store high temp probe,,,
EVT	00/07/29	12:09:05	DLG	492633.35	5310673.09	Unknown	2183.732	2.4	118.096°	Site - Grotto,preparing for sampling,,,
EVT	00/07/29	12:11:03	DLG	492630.27	5310673.38	Unknown	2183.277	6.7	111.696°	Site - Grotto,moving for sampling at top,,,
EVT	00/07/29	12:12:18	DLG	492633.10	5310674.14	Unknown	2183.537	2.5	95.493°	Site - Grotto,high temp mes.,,,
EVT	00/07/29	12:15:11	DLG	492633.10	5310674.14	Unknown	2183.503	2.4	95.080°	Site - Grotto,VID_GRAB,sampling sulfide wiyh worms?,,
EVT	00/07/29	12:16:13	DLG	492633.10	5310674.14	Unknown	2183.537	2.4	95.574°	Site - Grotto,try another sampling,,,
EVT	00/07/29	12:17:25	DLG	492660.06	5310665.42	Unknown	2183.510	2.4	96.542°	Site - Grotto,took sulfide with worms,,,
EVT	00/07/29	12:18:11	DLG	492660.06	5310665.42	Unknown	2183.550	2.5	96.404°	Site - Grotto,try sampling one more,,,
EVT	00/07/29	12:18:36	DLG	492660.06	5310665.42	Unknown	2183.556	2.4	96.505°	Site - Grotto,took worms,,
EVT	00/07/29	12:20:06	DLG	492639.83	5310669.04	Unknown	2183.548	2.3	97.045°	Site - Grotto,finish sampling,,
EVT	00/07/29	12:24:31	DLG	492628.79	5310676.58	Unknown	2182.960	6.8	53.198°	Site - Grotto,hovering on top of Grotto,,
EVT	00/07/29	12:25:20	DLG	492629.25	5310677.03	Unknown	2182.925	6.7	51.819°	Site - Grotto,packaging samples in box,,
EVT	00/07/29	12:37:23	DLG	492639.62	5310674.80	Unknown	2186.785	8.9	261.242°	Site - Grotto,looking east on Grotto,,
EVT	00/07/29	12:37:34	DLG	492639.62	5310674.80	Unknown	2186.865	8.9	261.474°	Site - Grotto,VID_GRAB,worms and diffuse flow,,
EVT	00/07/29	12:44:47	DLG	492642.31	5310677.33	Unknown	2192.167	3.5	263.040°	Site - Grotto,on the north part of Grotto right now,,
EVT	00/07/29	12:48:02	DLG	492643.26	5310676.38	Unknown	2191.852	3.9	66.346°	Site - Grotto,VID_GRAB,North tower of Grotto,,
EVT	00/07/29	12:48:52	DLG	492643.26	5310676.38	Unknown	2194.882	0.9	63.646°	Site - Grotto,VID_GRAB,diffuse flow,,
EVT	00/07/29	12:50:59	DLG	492643.26	5310676.38	Unknown	2195.042	0.9	62.734°	Site - Grotto,getting Kyo's probe,,
EVT	00/07/29	12:51:34	DLG	492643.26	5310676.38	Unknown	2195.008	0.8	62.364°	Site - Grotto,VID_GRAB,Diffuse flow,,
EVT	00/07/29	12:51:55	DLG	492643.26	5310676.38	Unknown	2195.022	0.8	63.180°	Site - Grotto,, Start Rec.,diffuse flow temp. measures
EVT	00/07/29	12:53:53	DLG	492643.26	5310676.38	Unknown	2195.130	0.9	62.580°	Site - Grotto,VID_GRAB,diffuse flow,,
EVT	00/07/29	12:54:21	DLG	492643.26	5310676.38	Unknown	2195.206	0.9	62.122°	Site - Grotto,stop recording temp.,,,
EVT	00/07/29	12:55:50	DLG	492643.26	5310676.38	Unknown	2195.192	0.9	62.093°	Site - Grotto,recording with Kyo's probe,,
EVT	00/07/29	12:56:03	DLG	492643.26	5310676.38	Unknown	2195.236	0.9	62.032°	Site - Grotto,VID_GRAB,Kyo's probe,,
EVT	00/07/29	12:56:41	DLG	492643.26	5310676.38	Unknown	2195.267	0.9	61.632°	Site - Grotto,getting K's probe just a little up,,
EVT	00/07/29	12:57:12	DLG	492643.26	5310676.38	Unknown	2195.222	0.9	61.101°	Site - Grotto,VID_GRAB,2nd measure with K's probe at north Grotto
EVT	00/07/29	12:58:04	DLG	492643.26	5310676.38	Unknown	2195.222	0.9	60.700°	Site - Grotto,K's probe is about 30 cm above flow,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	13:00:18	DLG	492643.26	5310676.38	Unknown	2195.217	0.9	62.909°	Site - Grotto,VID_GRAB,3rd measure at the same spot
EVT	00/07/29	13:00:48	DLG	492643.26	5310676.38	Unknown	2195.215	0.9	62.951°	Site - Grotto,trying to get a temp gradient,
EVT	00/07/29	13:04:30	DLG	492643.26	5310676.38	Unknown	2195.168	0.9	63.839°	Site - Grotto,still recording with K's probe,
EVT	00/07/29	13:05:23	DLG	492643.26	5310676.38	Unknown	2195.176	0.9	63.811°	Site - Grotto,VID_GRAB,4th measure same spot
EVT	00/07/29	13:09:18	DLG	492643.26	5310676.38	Unknown	2195.187	0.9	63.100°	Site - Grotto,K's probe over the bucket,
EVT	00/07/29	13:12:37	DLG	492643.26	5310676.38	Unknown	2193.970	1.8	75.263°	Site - Grotto,VID_GRAB,north tower of Grotto
EVT	00/07/29	13:12:37	DLG	492643.26	5310676.38	Unknown	2193.970	1.8	76.471°	Site - Grotto,,
EVT	00/07/29	13:14:18	DLG	492643.26	5310676.38	Unknown	2194.838	0.8	121.278°	Site - Grotto,VID_GRAB,diffuse flow
EVT	00/07/29	13:16:44	DLG	492643.26	5310676.38	Unknown	2194.782	0.9	121.517°	Site - Grotto,VID_GRAB,Kyo's probe on north Grotto
EVT	00/07/29	13:18:11	DLG	492643.26	5310676.38	Unknown	2194.760	0.9	122.309°	Site - Grotto,VID_GRAB,2nd measure-same spot
EVT	00/07/29	13:20:37	DLG	492643.26	5310676.38	Unknown	2194.717	0.9	121.733°	Site - Grotto,moving Kyo's probe,
EVT	00/07/29	13:21:05	DLG	492643.26	5310676.38	Unknown	2194.691	0.8	121.648°	Site - Grotto,VID_GRAB,3rd measure
EVT	00/07/29	13:22:45	DLG	492643.26	5310676.38	Unknown	2194.700	30	121.149°	Site - Grotto,VID_GRAB,4th measure-a bit up the bottom
EVT	00/07/29	13:26:04	DLG	492643.26	5310676.38	Unknown	2194.287	1.5	121.887°	Site - Grotto,lifting up jason,
EVT	00/07/29	13:29:32	DLG	492638.79	5310692.87	Unknown	2193.217	2.8	110.602°	Site - Grotto,VID_GRAB,place where we sat
EVT	00/07/29	13:30:11	DLG	492647.62	5310681.63	Unknown	2194.897	1.2	116.681°	Site - Grotto,looking for other diffuse flow measuring,
EVT	00/07/29	13:32:58	DLG	492647.62	5310681.63	Unknown	2194.973	1	119.822°	Site - Grotto,VID_GRAB,
EVT	00/07/29	13:33:05	DLG	492647.62	5310681.63	Unknown	2194.973	1	119.800°	Site - Grotto,Diffuse flow,
EVT	00/07/29	13:35:29	DLG	492647.62	5310681.63	Unknown	2194.916	1.1	118.706°	Site - Grotto,VID_GRAB,2nd measure
EVT	00/07/29	13:36:08	DLG	492647.62	5310681.63	Unknown	2194.928	1.1	118.961°	Site - Grotto,VID_GRAB,3rd measure
EVT	00/07/29	13:36:59	DLG	492647.62	5310681.63	Unknown	2194.995	1	118.807°	Site - Grotto,VID_GRAB,close up on 3rd measure
EVT	00/07/29	13:39:10	DLG	492647.62	5310681.63	Unknown	2194.990	1	119.310°	Site - Grotto,VID_GRAB,another place to measure diffuse flow
EVT	00/07/29	13:42:31	DLG	492647.62	5310681.63	Unknown	2195.135	1	118.593°	Site - Grotto,VID_GRAB,5 th measure same site-down on the bottom
EVT	00/07/29	13:43:54	DLG	492647.62	5310681.63	Unknown	2195.133	1	118.386°	Site - Grotto,VID_GRAB,close up on 5th measure
EVT	00/07/29	13:47:12	DLG	492647.62	5310681.63	Unknown	2195.157	1	116.775°	Site - Grotto,putting K's probe back in the bucket,
EVT	00/07/29	13:48:59	DLG	492647.62	5310681.63	Unknown	2193.883	2.4	115.550°	Site - Grotto,moving to the west site of Grotto,
EVT	00/07/29	13:53:03	DLG	492645.62	5310680.53	Unknown	2190.707	5.6	262.052°	Site - Grotto,VID_GRAB,east part of northern tower of Grotto

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	13:54:52	DLG	492633.20	5310683.59	Unknown	2185.787	6.6	129.072°	Site - Grotto,VID_GRAB,north Grotto looking south
EVT	00/07/29	13:55:20	DLG	492629.52	5310674.98	Unknown	2186.419	5	108.906°	Site - Grotto,VID_GRAB,black smoker on Grotto
EVT	00/07/29	13:55:41	DLG	492630.43	5310675.04	Unknown	2186.506	5.2	107.150°	Site - Grotto,VID_GRAB,close up on a flange
EVT	00/07/29	13:57:44	DLG	492620.83	5310671.87	Unknown	2186.446	5.9	73.775°	Site - Grotto,VID_GRAB,hobo
EVT	00/07/29	13:58:28	DLG	492627.83	5310672.18	Unknown	2186.326	5.8	76.846°	Site - Grotto,VID_GRAB,mareker on Grotto
EVT	00/07/29	14:01:30	DLG	492626.42	5310667.17	Unknown	2186.345	9.4	128.768°	Site - Grotto,VID_GRAB,unidentified edifice
EVT	00/07/29	14:02:53	DLG	492629.90	5310658.99	Unknown	2186.331	9.4	112.189°	Site - Grotto,we're west side of Grotto,
EVT	00/07/29	14:03:11	DLG	492630.51	5310658.87	Unknown	2186.314	9.4	111.762°	Site - Grotto,VID_GRAB,west Grotto looking from east
EVT	00/07/29	14:16:22	DLG	492632.93	5310658.01	Unknown	2188.225	7.5	86.451°	Site - Grotto,VID_GRAB,south part of Grotto
EVT	00/07/29	14:16:36	DLG	492635.60	5310657.79	Unknown	2188.218	7.5	69.204°	Site - Grotto,VID_GRAB,tube worms on Grotto
EVT	00/07/29	14:18:21	DLG	492634.79	5310658.76	Unknown	2191.487	3	70.181°	Site - Grotto,VID_GRAB,south Grotto-bacterail mat or something
EVT	00/07/29	14:18:34	DLG	492634.79	5310658.76	Unknown	2191.643	3.1	73.459°	Site - Grotto,VID_GRAB,close up on mat
EVT	00/07/29	14:24:20	DLG	492634.79	5310658.76	Unknown	2191.408	3.5	69.711°	Site - Grotto,VID_GRAB,south Grotto
EVT	00/07/29	14:25:20	DLG	492634.79	5310658.76	Unknown	2191.397	3.5	70.078°	Site - Grotto,seeing an bunch of dead alvinellas,
EVT	00/07/29	14:27:56	DLG	492633.55	5310660.30	Unknown	2190.142	6.2	84.967°	Site - Grotto,VID_GRAB,south Grotto
EVT	00/07/29	14:30:18	DLG	492635.20	5310658.73	Unknown	2188.240	7.6	81.285°	Site - Grotto,VID_GRAB,diffuse flow on Douth Grotto
EVT	00/07/29	14:33:48	DLG	492634.67	5310659.50	Unknown	2187.901	7	77.241°	Site - Grotto,VID_GRAB,diffuse flow on south Grotto
EVT	00/07/29	14:35:29	DLG	492635.25	5310659.58	Unknown	2187.696	8.1	84.607°	Site - Grotto,VID_GRAB,south Grotto temp measuring
EVT	00/07/29	14:38:27	DLG	492636.75	5310659.22	Unknown	2187.724	7.3	84.770°	Site - Grotto,VID_GRAB,Kyo's probe measuring
EVT	00/07/29	14:41:56	DLG	492634.96	5310659.10	Unknown	2187.773	7.2	84.467°	Site - Grotto,VID_GRAB,2nd measuring
EVT	00/07/29	14:42:41	DLG	492634.62	5310658.80	Unknown	2187.842	7.3	84.307°	Site - Grotto,VID_GRAB,alvinellas on sulfides
EVT	00/07/29	14:45:17	DLG	492636.79	5310658.48	Unknown	2187.959	7.1	84.717°	Site - Grotto,we're at the SW corner of Grotto,
EVT	00/07/29	14:51:45	DLG	492637.61	5310657.36	Unknown	2187.898	6.8	61.459°	Site - Grotto,VID_GRAB,
EVT	00/07/29	14:51:50	DLG	492637.61	5310657.36	Unknown	2187.831	6.8	61.245°	Site - Grotto,VID_GRAB,
EVT	00/07/29	14:52:00	DLG	492638.14	5310656.94	Unknown	2187.786	6.9	62.554°	Site - Grotto,VID_GRAB,
EVT	00/07/29	14:52:53	DLG	492638.24	5310656.91	Unknown	2187.734	7	61.955°	Site - Grotto,VID_GRAB,
EVT	00/07/29	14:55:06	DLG	492638.33	5310656.66	Unknown	2187.263	7.5	58.631°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:01:16	DLG	492640.63	5310656.07	Unknown	2186.724	7.5	30.661°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:03:52	DLG	492640.58	5310656.51	Unknown	2187.019	6.4	19.906°	Site - Grotto,VID_GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	15:03:57	DLG	492640.03	5310656.20	Unknown	2186.980	6.4	18.726°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:04:20	DLG	492640.78	5310656.51	Unknown	2186.874	6.7	18.657°	Site - Grotto,VID_GRAB,flow meter
EVT	00/07/29	15:05:16	DLG	492639.76	5310656.41	Unknown	2186.982	7.7	19.938°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:05:26	DLG	492639.76	5310656.41	Unknown	2186.989	7.6	19.622°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:06:46	DLG	492640.36	5310656.77	Unknown	2187.008	7.7	19.995°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:06:54	DLG	492640.36	5310656.77	Unknown	2187.015	7.6	19.926°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:07:03	DLG	492640.28	5310656.73	Unknown	2187.068	7.3	19.987°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:10:14	DLG	492639.84	5310656.16	Unknown	2187.139	7.7	23.519°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:11:08	DLG	492638.18	5310655.23	Unknown	2186.835	8.1	24.299°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:12:11	DLG	492639.08	5310656.17	Unknown	2186.703	8	18.945°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:13:21	DLG	492640.93	5310656.38	Unknown	2186.836	6.7	13.063°	Site - Grotto,VID_GRAB,moving meter
EVT	00/07/29	15:13:30	DLG	492640.93	5310656.38	Unknown	2186.836	4.9	13.894°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:13:50	DLG	492641.04	5310656.26	Unknown	2186.557	8.7	15.259°	Site - Grotto,moving meter to a smoker,
EVT	00/07/29	15:14:33	DLG	492639.20	5310656.01	Unknown	2186.437	8.6	32.401°	Site - Grotto,VID_GRAB,flow measurement of a smoker
EVT	00/07/29	15:15:42	DLG	492638.05	5310658.82	Unknown	2186.393	9.4	96.373°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:16:42	DLG	492638.38	5310658.79	Unknown	2187.524	8	96.633°	Site - Grotto,measuring smoker speed,
EVT	00/07/29	15:17:15	DLG	492637.83	5310659.08	Unknown	2187.643	8	95.609°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:18:35	DLG	492640.03	5310658.95	Unknown	2187.773	7.4	96.269°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:22:53	DLG	492639.40	5310658.66	Unknown	2188.615	6.8	106.036°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:25:13	DLG	492639.38	5310658.89	Unknown	2188.880	6.7	105.809°	Site - Grotto,VID_GRAB,flow speed measurement
EVT	00/07/29	15:28:43	DLG	492638.88	5310659.19	Unknown	2188.547	7.5	107.591°	Site - Grotto,stopped flow meter measurements,
EVT	00/07/29	15:29:27	DLG	492639.42	5310658.66	Unknown	2188.514	7.5	106.997°	Site - Grotto,returning flow meter to the basket,
EVT	00/07/29	15:30:03	DLG	492639.43	5310658.79	Unknown	2188.556	7.6	107.655°	Site - Grotto,arm gymnastics,
EVT	00/07/29	15:30:30	DLG	492637.91	5310659.45	Unknown	2188.515	7.4	107.508°	Site - Grotto,smoker appearing to spiral clockwise,
EVT	00/07/29	15:30:58	DLG	492639.03	5310659.57	Unknown	2188.551	7.5	107.379°	Site - Grotto,seems to spiral anti-clockwise and then clockwise and then straight again,
EVT	00/07/29	15:31:45	DLG	492639.70	5310659.31	Unknown	2188.547	7.4	107.478°	Site - Grotto,picking up temperature probe,
EVT	00/07/29	15:33:25	DLG	492638.96	5310658.45	Unknown	2188.829	7.3	105.639°	Site - Grotto,VID_GRAB,temperature probe
EVT	00/07/29	15:34:33	DLG	492639.99	5310658.59	Unknown	2189.123	7	104.817°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:34:51	DLG	492639.19	5310658.39	Unknown	2189.165	7	104.938°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:35:00	DLG	492639.22	5310658.73	Unknown	2189.219	7	104.891°	Site - Grotto,consistently 360 ,
EVT	00/07/29	15:36:18	DLG	492638.25	5310659.65	Unknown	2188.449	8	104.082°	Site - Grotto,VID_GRAB,
EVT	00/07/29	15:37:53	DLG	492639.37	5310658.36	Unknown	2188.613	7.7	105.224°	Site - Grotto,0.5 meters some time back,
EVT	00/07/29	15:38:11	DLG	492639.06	5310658.82	Unknown	2188.528	7.9	105.276°	Site - Grotto,going to 10 cm ,
EVT	00/07/29	15:39:02	DLG	492638.86	5310658.37	Unknown	2188.836	7.4	105.828°	Site - Grotto,trying to go 3cm above. ,
EVT	00/07/29	15:39:37	DLG	492635.82	5310658.02	Unknown	2188.620	7.6	105.283°	Site - Grotto,VID_GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	15:40:32	DLG	492639.52	5310658.42	Unknown	2188.902	7.4	104.807°	Site - Grotto, about 10 inches from ground,
EVT	00/07/29	15:43:02	DLG	492638.67	5310658.57	Unknown	2188.663	7.5	102.638°	Site - Grotto, VID_GRAB,
EVT	00/07/29	15:43:29	DLG	492639.24	5310658.49	Unknown	2188.648	5.8	125.959°	Site - Grotto, sorry..that was 10 cm from ground,
EVT	00/07/29	15:44:18	DLG	492637.40	5310661.98	Unknown	2188.487	2.1	124.865°	Site - Grotto, temperature recording at smoker complete,
EVT	00/07/29	15:48:31	DLG	492643.83	5310660.70	Unknown	2186.385	1.8	305.211°	Site - Grotto, just N of grotto,
EVT	00/07/29	15:50:07	DLG	492648.69	5310658.17	Unknown	2184.242	8.8	276.863°	Site - Grotto, VID_GRAB,
EVT	00/07/29	15:50:27	DLG	492651.81	5310656.13	Unknown	2186.115	6.8	271.285°	Site - Grotto, triangular tag,
EVT	00/07/29	15:50:32	DLG	492651.81	5310656.13	Unknown	2186.194	6.7	270.963°	Site - Grotto, VID_GRAB,
EVT	00/07/29	15:50:52	DLG	492649.56	5310653.92	Unknown	2187.503	5.2	271.628°	Site - Grotto, some instruments around,
EVT	00/07/29	15:51:44	DLG	492648.77	5310654.63	Unknown	2188.458	4.6	272.087°	Site - Grotto, VID_GRAB,
EVT	00/07/29	15:51:48	DLG	492648.77	5310654.63	Unknown	2188.040	5.1	271.699°	Site - Grotto, VID_GRAB,
EVT	00/07/29	15:54:01	DLG	492629.11	5310658.20	Unknown	2191.076	4.1	28.238°	Site - Grotto, we're up on the wall,
EVT	00/07/29	15:55:15	DLG	492612.78	5310662.66	Unknown	2189.035	5.7	58.773°	Site - Grotto, VID_GRAB,
EVT	00/07/29	15:56:00	DLG	492629.65	5310665.36	Unknown	2186.561	7.1	72.305°	Site - Grotto, more instruments,
EVT	00/07/29	15:56:08	DLG	492629.65	5310665.36	Unknown	2186.537	7.1	69.030°	Site - Grotto, VID_GRAB, instrumnets\
EVT	00/07/29	15:56:25	DLG	492631.97	5310665.52	Unknown	2186.493	7.3	57.836°	Site - Grotto, VID_GRAB,
EVT	00/07/29	15:56:34	DLG	492631.97	5310665.52	Unknown	2186.346	7.5	58.095°	Site - Grotto, we're at the top of the north tower,
EVT	00/07/29	15:57:10	DLG	492632.32	5310666.71	Unknown	2186.120	7.7	59.809°	Site - Grotto, VID_GRAB,
EVT	00/07/29	15:58:47	DLG	492631.60	5310667.84	Unknown	2185.400	6.4	89.290°	Site - Grotto, VID_GRAB
EVT	00/07/29	15:59:10	DLG	492631.35	5310669.38	Unknown	2184.756	6.9	103.523°	Site - Grotto, smoke on the water\
EVT	00/07/29	16:00:15	DLG	492628.74	5310669.23	Unknown	2183.922	7.8	85.619°	Site - Grotto, this is the tower we want
EVT	00/07/29	16:01:40	DLG	492630.54	5310666.50	Unknown	2183.832	9.2	47.633°	Site - Grotto, putting temp probe back
EVT	00/07/29	16:08:19	DLG	492636.15	5310672.82	Unknown	2182.185	6.4	203.091°	Site - Grotto, going into smoke
EVT	00/07/29	16:09:59	DLG	492635.12	5310673.58	Unknown	2184.812	3.6	184.022°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:10:38	DLG	492635.56	5310672.41	Unknown	2184.521	4.3	193.156°	Site - Grotto, got upto 200 degrees
EVT	00/07/29	16:11:13	DLG	492635.24	5310672.73	Unknown	2184.999	4	205.243°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:11:43	DLG	492635.67	5310672.60	Unknown	2185.093	3.6	204.978°	Site - Grotto, reached 305
EVT	00/07/29	16:11:47	DLG	492635.67	5310672.60	Unknown	2185.080	3.8	204.286°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:12:26	DLG	492635.34	5310672.46	Unknown	2185.219	3.7	203.486°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:12:34	DLG	492635.34	5310672.46	Unknown	2184.860	4.2	201.902°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:12:53	DLG	492635.34	5310672.46	Unknown	2185.159	3.9	199.206°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:13:11	DLG	492635.34	5310672.46	Unknown	2184.926	4.4	203.568°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:14:04	DLG	492636.22	5310672.50	Unknown	2185.427	3.4	200.684°	Site - Grotto, max was 358..very close to the vent..about a few centimeters above vent
EVT	00/07/29	16:14:27	DLG	492635.65	5310672.12	Unknown	2185.476	3.7	200.898°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:14:55	DLG	492635.92	5310672.60	Unknown	2185.135	4.1	201.760°	Site - Grotto, climbing altitude
EVT	00/07/29	16:15:07	DLG	492635.92	5310672.60	Unknown	2185.217	4.4	200.649°	Site - Grotto, about half meter from vent
EVT	00/07/29	16:16:40	DLG	492635.45	5310672.61	Unknown	2185.433	3.8	200.354°	Site - Grotto, VID_GRAB
EVT	00/07/29	16:19:16	DLG	492636.52	5310671.81	Unknown	2185.842	4.1	246.180°	Site - Grotto, just 10cm above vent

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
										vent
EVT	00/07/29	16:19:27	DLG	492636.52	5310671.81	Unknown	2185.587	3.9	246.388°	Site - Grotto,now trying half a
EVT	00/07/29	16:21:13	DLG	492636.40	5310671.03	Unknown	2184.214	4.8	321.390°	ameter Site - Grotto,
EVT	00/07/29	16:21:14	DLG	492637.08	5310672.17	Unknown	2184.713	4.7	320.461°	Site - Grotto,lost it
EVT	00/07/29	16:21:28	DLG	492637.08	5310672.17	Unknown	2186.988	9.3	314.114°	Site - Grotto,max at 0.5 m seemed to be 11
EVT	00/07/29	16:25:18	DLG	492636.21	5310671.56	Unknown	2184.710	4.6	240.162°	Site - Grotto,trying a meter above
EVT	00/07/29	16:25:57	DLG	492636.91	5310672.48	Unknown	2184.840	4.5	243.340°	Site - Grotto,about half a meter
EVT	00/07/29	16:26:34	DLG	492636.35	5310671.61	Unknown	2184.869	11.6	255.027°	Site - Grotto,36 was highest at halfa meter
EVT	00/07/29	16:27:28	DLG	492638.09	5310672.85	Unknown	2185.095	4.9	254.138°	Site - Grotto,cant get too close as we're interrupting flow from somewhere else
EVT	00/07/29	16:28:11	DLG	492636.37	5310671.84	Unknown	2185.228	4.6	249.943°	Site - Grotto,we're looking west now.
EVT	00/07/29	16:29:46	DLG	492637.29	5310671.64	Unknown	2184.879	5	250.051°	Site - Grotto,we're right now on 34
EVT	00/07/29	16:30:51	DLG	492633.95	5310677.59	Unknown	2184.997	4.3	250.294°	Site - Grotto,replacing probe
EVT	00/07/29	16:33:01	DLG	492637.84	5310670.95	Unknown	2184.980	5.1	250.297°	Site - Grotto,picking up flow meter
EVT	00/07/29	16:35:24	DLG	492635.80	5310672.19	Unknown	2185.691	3.5	242.569°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:35:29	DLG	492635.80	5310672.19	Unknown	2185.858	3.2	240.929°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:35:36	DLG	492635.80	5310672.19	Unknown	2186.077	3.1	241.764°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:37:57	DLG	492637.51	5310670.66	Unknown	2185.820	2.7	265.859°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:38:22	DLG	492637.29	5310670.03	Unknown	2186.080	1.9	273.582°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:38:36	DLG	492636.80	5310670.56	Unknown	2186.024	2.2	273.520°	Site - Grotto,VID_GRAB,smoker speed measurment
EVT	00/07/29	16:39:23	DLG	492637.91	5310670.46	Unknown	2185.995	2.7	270.103°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:41:34	DLG	492638.39	5310669.91	Unknown	2186.145	2.5	270.563°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:42:46	DLG	492637.84	5310670.21	Unknown	2186.218	2.9	270.959°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:43:04	DLG	492637.84	5310670.21	Unknown	2185.850	3.3	270.643°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:44:27	DLG	492638.58	5310668.68	Unknown	2185.803	3.3	273.027°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:44:40	DLG	492636.83	5310670.34	Unknown	2186.013	2.3	274.657°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:45:38	DLG	492636.28	5310670.50	Unknown	2185.749	3	308.978°	Site - Grotto,"picking up flow m,eter",
EVT	00/07/29	16:46:58	DLG	492636.68	5310670.59	Unknown	2186.072	2.2	286.238°	Site - Grotto,setting meter in another location,
EVT	00/07/29	16:48:43	DLG	492636.95	5310670.30	Unknown	2186.618	2.2	289.128°	Site - Grotto,fell slightly off the vent,
EVT	00/07/29	16:52:59	DLG	492634.00	5310668.85	Unknown	2185.013	8.7	135.329°	Site - Grotto,we're at the big guyy,
EVT	00/07/29	16:53:06	DLG	492634.00	5310668.85	Unknown	2185.072	8.5	141.152°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:53:20	DLG	492634.26	5310670.10	Unknown	2185.070	8.6	157.701°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:53:39	DLG	492634.93	5310669.93	Unknown	2185.210	3.1	172.606°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:53:54	DLG	492634.93	5310669.93	Unknown	2185.264	2.5	185.876°	Site - Grotto,width of hole is about 6 inches,
EVT	00/07/29	16:54:40	DLG	492636.14	5310669.13	Unknown	2184.977	2.8	201.578°	Site - Grotto,like a steam engine,
EVT	00/07/29	16:55:24	DLG	492635.88	5310671.07	Unknown	2184.223	3.2	205.160°	Site - Grotto,we're at the place wher the passive listening experiment was carried out,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	16:56:31	DLG	492634.55	5310670.81	Unknown	2184.607	3.9	173.732°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:56:40	DLG	492622.79	5310667.98	Unknown	2184.886	3.3	172.870°	Site -
EVT	00/07/29	16:56:47	DLG	492622.79	5310667.98	Unknown	2185.135	2.8	173.026°	Grotto,VID_GRAB,awesome
EVT	00/07/29	16:58:25	DLG	492635.66	5310669.59	Unknown	2184.665	3.5	173.760°	Site - Grotto,VID_GRAB,
EVT	00/07/29	16:58:30	DLG	492635.66	5310669.59	Unknown	2184.578	3.5	173.108°	Site - Grotto,VID_GRAB,
EVT	00/07/29	17:01:46	DLG	492635.05	5310669.45	Unknown	2184.434	3.5	166.320°	Site - Grotto,whoops..that fell slightly far away from the vent,
EVT	00/07/29	17:06:41	DLG	492635.32	5310669.61	Unknown	2184.597	7.1	164.108°	Site - Grotto,VID_GRAB,
EVT	00/07/29	17:07:05	DLG	492635.02	5310670.26	Unknown	2185.837	5.4	159.862°	Site - Grotto,the rod got pushed around....,
EVT	00/07/29	17:08:55	DLG	492634.79	5310669.75	Unknown	2184.971	6.2	157.133°	Site - Grotto,VID_GRAB,
EVT	00/07/29	17:11:33	DLG	492635.72	5310668.61	Unknown	2184.665	3.3	152.416°	Site - Grotto,not able to place the rod next to the vent....,
EVT	00/07/29	17:11:39	DLG	492634.45	5310669.07	Unknown	2184.767	3.4	149.211°	Site - Grotto,trying to hover next to vent
EVT	00/07/29	17:14:33	DLG	492634.39	5310669.67	Unknown	2184.986	6.9	157.495°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:14:38	DLG	492635.03	5310669.96	Unknown	2184.901	6.5	158.622°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:14:47	DLG	492635.03	5310669.96	Unknown	2185.001	2.5	176.130°	Site - Grotto,at last next to vent..
EVT	00/07/29	17:14:57	DLG	492635.21	5310670.63	Unknown	2185.042	2.2	184.030°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:15:00	DLG	492635.21	5310670.63	Unknown	2185.044	2.1	185.383°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:15:12	DLG	492635.21	5310670.63	Unknown	2185.492	1.8	173.615°	Site - Grotto,pushover...
EVT	00/07/29	17:18:36	DLG	492635.30	5310671.40	Unknown	2185.016	6.1	158.047°	Site - Grotto,a polychaete worm
EVT	00/07/29	17:19:33	DLG	492635.23	5310670.82	Unknown	2185.039	6.5	160.114°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:19:38	DLG	492635.53	5310670.08	Unknown	2185.066	6.2	158.409°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:19:48	DLG	492635.53	5310670.08	Unknown	2185.054	7	157.652°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:20:06	DLG	492633.01	5310670.19	Unknown	2184.930	6.5	157.246°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:20:21	DLG	492635.18	5310670.02	Unknown	2185.026	4	154.783°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:24:56	DLG	492635.24	5310670.80	Unknown	2184.997	8.7	152.391°	Site - Grotto,facing south now
EVT	00/07/29	17:26:17	DLG	492635.90	5310671.45	Unknown	2185.008	8.7	153.486°	Site - Grotto,picking up temp probe
EVT	00/07/29	17:27:20	DLG	492634.39	5310670.94	Unknown	2185.401	7.1	159.602°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:28:22	DLG	492635.46	5310670.14	Unknown	2185.670	2.6	165.654°	Site - Grotto,in the vent now..
EVT	00/07/29	17:29:22	DLG	492635.38	5310669.45	Unknown	2185.624	2.5	171.472°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:30:27	DLG	492636.62	5310669.83	Unknown	2185.775	2.1	172.792°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:30:34	DLG	492636.62	5310669.83	Unknown	2185.597	2.3	172.376°	Site - Grotto,max seems to be 359
EVT	00/07/29	17:31:12	DLG	492634.56	5310670.34	Unknown	2185.416	3	166.612°	Site - Grotto,wire got bent
EVT	00/07/29	17:31:40	DLG	492635.71	5310669.97	Unknown	2185.789	2.5	164.441°	Site - Grotto,max is 361....
EVT	00/07/29	17:32:00	DLG	492635.32	5310669.25	Unknown	2185.784	2.3	167.458°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:33:15	DLG	492636.18	5310669.71	Unknown	2185.809	2.5	169.624°	Site - Grotto,in the vent again
EVT	00/07/29	17:34:27	DLG	492634.88	5310670.09	Unknown	2186.086	27.5	186.699°	Site - Grotto,steady 359
EVT	00/07/29	17:35:14	DLG	492634.93	5310668.95	Unknown	2185.605	0.9	186.052°	Site - Grotto,the rod is in bad shape
EVT	00/07/29	17:35:46	DLG	492635.47	5310670.10	Unknown	2185.365	1.1	184.812°	Site - Grotto,10cm...
EVT	00/07/29	17:36:49	DLG	492636.29	5310669.83	Unknown	2185.108	2.6	185.238°	Site - Grotto,199 seems to be highest at 10cm
EVT	00/07/29	17:42:50	DLG	492639.16	5310669.19	Unknown	2185.369	6.8	285.877°	Site - Grotto,instruments
EVT	00/07/29	17:46:10	DLG	492636.38	5310671.11	Unknown	2185.435	6.1	156.886°	Site - Grotto,about half a meter above vent

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	17:46:21	DLG	492634.65	5310672.04	Unknown	2185.373	3.3	161.620°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:46:23	DLG	492634.65	5310672.04	Unknown	2185.226	3	161.768°	Site - Grotto,VID_GRAB
EVT	00/07/29	17:47:04	DLG	492635.52	5310669.88	Unknown	2184.654	5	163.711°	Site - Grotto,max is 115 till now...
EVT	00/07/29	17:47:40	DLG	492636.16	5310669.47	Unknown	2184.328	4.2	162.436°	Site - Grotto,VID_GRAB,
EVT	00/07/29	17:47:42	DLG	492636.16	5310669.47	Unknown	2184.354	4.2	162.409°	Site - Grotto,VID_GRAB,
EVT	00/07/29	17:47:53	DLG	492636.16	5310669.47	Unknown	2184.183	7.6	162.046°	Site - Grotto,VID_GRAB,half meter up
EVT	00/07/29	17:48:41	DLG	492635.94	5310669.88	Unknown	2184.144	3.8	161.658°	Site - Grotto,sorry..115 does not seem for this height,
EVT	00/07/29	17:48:56	DLG	492635.79	5310669.03	Unknown	2184.224	4.5	162.712°	Site - Grotto,VID_GRAB,
EVT	00/07/29	17:50:09	DLG	492630.28	5310678.06	Unknown	2184.026	4.1	164.578°	Site - Grotto,sounds like 52 was heighest at half meter,
EVT	00/07/29	17:50:29	DLG	492635.95	5310669.58	Unknown	2184.219	10.3	162.517°	Site - Grotto,we'll be doing the passive sonar experiment,
EVT	00/07/29	17:52:30	DLG	492635.73	5310671.74	Unknown	2183.991	10.3	158.747°	Site - Grotto,putting temp probe back,
EVT	00/07/29	17:58:29	DLG	492635.46	5310672.52	Unknown	2186.363	7.6	165.088°	Site - Grotto,starting recording of passive flow on grotto.,
EVT	00/07/29	17:58:46	DLG	492635.13	5310673.31	Unknown	2185.897	8.2	164.772°	Site - Grotto,recording file number 00G2985,
EVT	00/07/29	17:59:21	DLG	492635.56	5310672.69	Unknown	2184.640	9.3	165.104°	Site - Grotto,its directly in front of usnow ,
EVT	00/07/29	17:59:41	DLG	492635.05	5310673.65	Unknown	2183.927	9.9	164.255°	Site - Grotto,stopping recording,
EVT	00/07/29	18:00:40	DLG	492635.84	5310672.92	Unknown	2186.341	7.7	169.710°	Site - Grotto,,
EVT	00/07/29	18:00:47	DLG	492635.84	5310672.92	Unknown	2186.102	8.1	170.852°	Site - Grotto,starting 286,
EVT	00/07/29	18:01:40	DLG	492634.55	5310674.55	Unknown	2183.509	10.3	168.453°	Site - Grotto,stopoped recording,
EVT	00/07/29	18:02:33	DLG	492635.84	5310671.54	Unknown	2183.551	8.9	170.333°	Site - Grotto,we're going to hover for sometime to do a completly different kindof run
EVT	00/07/29	18:09:01	DLG	492635.23	5310671.66	Unknown	2183.704	8.1	170.103°	Site - Grotto,VID_GRAB
EVT	00/07/29	18:09:36	DLG	492635.49	5310670.63	Unknown	2183.751	8.3	164.989°	Site - Grotto,VID_GRAB
EVT	00/07/29	18:09:38	DLG	492635.49	5310670.63	Unknown	2183.998	7.7	165.488°	Site - Grotto,VID_GRAB
EVT	00/07/29	18:10:24	DLG	492635.52	5310671.01	Unknown	2183.947	7.6	166.691°	Site - Grotto,somethinmgs wrong with the SM2000 settings...rebooting the program
EVT	00/07/29	18:14:03	DLG	492634.57	5310671.92	Unknown	2183.855	8.8	166.568°	Site - Grotto,VID_GRAB
EVT	00/07/29	18:16:06	DLG	492635.56	5310672.19	Unknown	2183.958	10.4	165.954°	Site - Grotto,"setting up for a ""double-barrel"" run...to image both the rock and the plume together"
EVT	00/07/29	18:23:18	DLG	492634.46	5310674.64	Unknown	2185.904	8.4	166.583°	Site - Grotto,VID_GRAB
EVT	00/07/29	18:24:24	DLG	492628.27	5310684.25	Unknown	2191.936	2.2	166.252°	Site - Grotto,we're down to 4 meters from ground
EVT	00/07/29	18:25:28	DLG	492621.61	5310695.23	Unknown	2193.084	1.3	166.629°	Site - Grotto,we're going to slowly rise from thje base
EVT	00/07/29	18:26:11	DLG	492621.61	5310695.23	Unknown	2193.030	1.2	166.410°	Site - Grotto,"starting now..at the base..at low power., elevatoir, N tower"
EVT	00/07/29	18:26:19	DLG	492621.61	5310695.23	Unknown	2193.056	1.1	166.168°	Site - Grotto,not started yet..

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	18:27:04	DLG	492621.61	5310695.23	Unknown	2193.066	1.4	165.767°	Site - Grotto, starting G29287 now
EVT	00/07/29	18:27:36	DLG	492632.04	5310678.06	Unknown	2191.747	2.4	167.009°	Site - Grotto, going up slowly
EVT	00/07/29	18:29:03	DLG	492632.79	5310675.50	Unknown	2187.016	7.1	167.407°	Site - Grotto, VID_GRAB
EVT	00/07/29	18:29:05	DLG	492632.79	5310675.50	Unknown	2186.870	7.2	167.400°	Site - Grotto, VID_GRAB
EVT	00/07/29	18:29:33	DLG	492634.40	5310674.78	Unknown	2184.772	9.2	167.074°	Site - Grotto, changing power to high now
EVT	00/07/29	18:29:44	DLG	492634.30	5310676.00	Unknown	2184.041	10.2	167.282°	Site - Grotto, it actually worked:))
EVT	00/07/29	18:30:03	DLG	492628.33	5310682.73	Unknown	2182.563	11.4	167.050°	Site - Grotto, herw's the main smoker...
EVT	00/07/29	18:30:20	DLG	492634.54	5310674.82	Unknown	2181.205	12.6	167.130°	Site - Grotto, about 12 metres above
EVT	00/07/29	18:32:22	DLG	492633.36	5310675.29	Unknown	2171.597	21.8	167.001°	Site - Grotto, we're about 20 metres from bottom now..
EVT	00/07/29	18:32:38	DLG	492634.42	5310675.16	Unknown	2170.367	23.4	167.349°	Site - Grotto, we'll probably go 200 m above...
EVT	00/07/29	18:34:41	DLG	492633.06	5310676.67	Unknown	2159.334	30	167.878°	Site - Grotto, 30m above...lost doppler
EVT	00/07/29	18:37:13	DLG	492636.19	5310666.17	Unknown	2141.644	30	166.384°	Site - Grotto,
EVT	00/07/29	18:37:13	DLG	492636.19	5310666.17	Unknown	2141.644	30	166.384°	Site - Grotto,
EVT	00/07/29	18:37:14	DLG	492636.19	5310666.17	Unknown	2141.644	30	166.405°	Site - Grotto,
EVT	00/07/29	18:38:47	DLG	492640.82	5310667.32	Unknown	2132.414	30	172.627°	Site - Grotto, still going up..
EVT	00/07/29	18:38:51	DLG	492640.82	5310667.32	Unknown	2132.068	30	175.582°	Site - Grotto,
EVT	00/07/29	18:38:51	DLG	492640.82	5310667.32	Unknown	2132.068	30	175.691°	Site - Grotto,
EVT	00/07/29	18:40:38	DLG	492628.88	5310685.31	Unknown	2124.913	30	169.060°	Site - Grotto, the depth when we started was 2193...
EVT	00/07/29	18:40:43	DLG	492628.88	5310685.31	Unknown	2124.588	30	169.200°	Site - Grotto, still going up.
EVT	00/07/29	18:44:43	DLG	492635.90	5310669.68	Unknown	2107.926	30	169.023°	Site - Grotto, fish seen on video...
EVT	00/07/29	18:44:55	DLG	492636.35	5310668.91	Unknown	2107.020	30	168.985°	Site - Grotto, probably will show on sonar,,,
EVT	00/07/29	18:55:57	DLG	492634.93	5310670.57	Unknown	2074.376	30	168.367°	Site - Grotto, start ascending quicker,,,
EVT	00/07/29	19:11:46	DLG	492629.75	5310670.16	Unknown	1874.268	30	167.098°	Site - Grotto,, Stop Rec.,,
EVT	00/07/29	19:12:41	DLG	492627.09	5310673.00	Unknown	1872.462	30	170.844°	Site - Grotto, preparing to perform elevator survey of southern Grotto tower,,,
EVT	00/07/29	19:47:17	DLG	492631.21	5310667.99	Unknown	2183.724	9.3	60.715°	Site - Grotto, visual contact with northern tower,,,
EVT	00/07/29	19:48:34	DLG	492631.71	5310668.16	Unknown	2191.076	3.1	167.159°	Site - Grotto, moving off to southern tower in preparation for performing elevator sonar imaging,,,
EVT	00/07/29	19:57:08	DLG	492627.82	5310664.73	Unknown	2191.305	2.1	66.176°	Site - Grotto, tape change\,,,
EVT	00/07/29	19:57:15	DLG	492627.82	5310664.73	Unknown	2191.471	2	66.219°	Site - Grotto, setting up sonar for elevator run,,,
EVT	00/07/29	19:59:57	DLG	492621.19	5310663.83	Unknown	2191.240	2.2	66.718°	Site - Grotto,, PLUME,, Start Rec.,P6 00G29288
EVT	00/07/29	20:02:34	DLG	492627.31	5310664.34	Unknown	2185.608	6.3	66.684°	Site - Grotto, ascending,,,
EVT	00/07/29	20:03:43	DLG	492629.51	5310665.08	Unknown	2182.339	9.1	66.935°	Site - Grotto,, Stop Rec.,,
EVT	00/07/29	20:11:07	DLG	492629.16	5310664.14	Unknown	2191.333	1.9	68.647°	Site - Grotto,, DIFFUSE,, Start Rec.,D2 00G29289

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	20:12:42	DLG	492628.38	5310665.03	Unknown	2183.365	8.6	68.625°	Site - Grotto,, Stop Rec.,,
EVT	00/07/29	20:13:42	DLG	492628.20	5310665.40	Unknown	2183.578	8.2	68.686°	Site - Grotto,288 and 289 were of the west face on the south tower of Grotto,,,
EVT	00/07/29	20:14:00	DLG	492628.67	5310665.56	Unknown	2183.731	7.5	167.858°	Site - Grotto,"setting up for elevator on the south tower, south face" ,,,
EVT	00/07/29	20:28:39	DLG	492632.24	5310656.13	Unknown	2197.637	1	358.250°	Site - Grotto,"Jason in position for sonar imaging of south face, south tower" ,,,
EVT	00/07/29	20:38:04	DLG	492608.91	5310650.75	Unknown	2197.270	1.2	7.176°	Site - Grotto,, PLUME,, Start Rec.,D2 00G29290
EVT	00/07/29	20:39:42	DLG	492636.44	5310654.84	Unknown	2184.212	13.6	7.472°	Site - Grotto,, Stop Rec.,,
EVT	00/07/29	20:40:07	DLG	492635.26	5310654.91	Unknown	2183.981	13.8	5.660°	Site - Grotto,preparing to set up for east face of south tower,,,
EVT	00/07/29	20:54:21	DLG	492637.52	5310655.49	Unknown	2189.754	8.4	13.248°	Site - Grotto,VID_GRAB,structure near Grotto (portion of Grotto????),,
EVT	00/07/29	20:55:02	DLG	492637.96	5310656.87	Unknown	2189.394	7.8	351.835°	Site - Grotto,previous frame grab possibly part of Dante,,,
EVT	00/07/29	21:04:34	DLG	492632.54	5310652.12	Unknown	2191.264	6.8	60.487°	Site - Grotto,"abandoning south face sonar imaging (too tight between Grotto and Dante), moving off to image northeast face of south tower" ,,,
EVT	00/07/29	21:07:39	DLG	492650.74	5310650.36	Unknown	2190.005	5.1	339.441°	Site - Grotto,VID_GRAB,Hobo and markers on smoker (Dante?),,
EVT	00/07/29	21:08:39	DLG	492651.99	5310651.62	Unknown	2190.518	4.9	320.057°	Site - Grotto,VID_GRAB,Hobo and marker on Dante,,,
EVT	00/07/29	21:09:21	DLG	492651.23	5310651.86	Unknown	2189.517	5.4	340.034°	Site - Grotto,VID_GRAB,,,
EVT	00/07/29	21:10:22	DLG	492651.75	5310652.95	Unknown	2187.753	7.7	334.730°	Site - Grotto,VID_GRAB,,,
EVT	00/07/29	21:13:06	DLG	492650.38	5310652.74	Unknown	2186.510	8.6	331.991°	Site - Grotto,VID_GRAB,,,
EVT	00/07/29	21:13:42	DLG	492651.86	5310653.56	Unknown	2186.546	8.7	332.675°	Site - Grotto,VID_GRAB,35 mm slide taken of this scene,,,
EVT	00/07/29	21:40:40	DLG	492643.76	5310676.58	Unknown	2171.159	17.2	60.913°	Site - Grotto,control problems with Jason,,,
EVT	00/07/29	21:45:09	DLG	492641.77	5310669.93	Unknown	2166.023	29.6	274.596°	Site - Grotto,rebooting Jason systems (film count 197),,
EVT	00/07/29	21:46:59	DLG	492651.50	5310663.11	Unknown	2158.994	29.8	354.450°	Site - Grotto,Jason systems back online,,,
EVT	00/07/29	21:53:28	DLG	492663.74	5310673.08	Unknown	2165.618	25.3	23.111°	Site - Grotto,tape change at 2150,,,
EVT	00/07/29	22:00:13	DLG	492667.88	5310678.39	Unknown	2198.528	4.1	230.913°	Site - Grotto,systems check out,,,
EVT	00/07/29	22:00:53	DLG	492666.72	5310679.53	Unknown	2201.146	1.6	230.484°	Site - Grotto,"looking at Grotto towers (both), setting up for elevator" ,,,
EVT	00/07/29	22:02:33	DLG	492666.14	5310681.80	Unknown	2201.457	1.3	231.126°	Site - Grotto,, DIFFUSE,, Start Rec.,D2 00G29291
EVT	00/07/29	22:04:02	DLG	492666.38	5310681.41	Unknown	2189.781	12.6	231.230°	Site - Grotto,, Stop Rec.,,
EVT	00/07/29	22:04:26	DLG	492668.38	5310678.44	Unknown	2193.034	9.5	230.101°	Site - Grotto,preparing to do another elevator of Grotto,,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	22:05:37	DLG	492669.10	5310678.01	Unknown	2199.517	3.1	170.781°	Site - Grotto,"setting up for an elevator in the same place, but looking due south",,,
EVT	00/07/29	22:06:28	DLG	492669.87	5310676.57	Unknown	2197.889	4.6	169.989°	Site - Grotto,a ray was just spotted in the distance on the aft camera (video decks 1 and 3),,,
EVT	00/07/29	22:08:14	DLG	492669.04	5310680.82	Unknown	2201.251	0.8	176.875°	Site - Grotto,, DIFFUSE,, Start Rec.,D2 00G29292
EVT	00/07/29	22:08:20	DLG	492669.04	5310680.82	Unknown	2201.005	1	177.977°	Site - Grotto,ascending,,,
EVT	00/07/29	22:09:42	DLG	492668.82	5310681.22	Unknown	2188.317	13.3	177.862°	Site - Grotto,, Stop Rec.,,
EVT	00/07/29	22:13:23	DLG	492659.36	5310680.15	Unknown	2199.958	2	227.180°	Site - Grotto,preparing for visual survey of the same perspective as 00G29291,,,
EVT	00/07/29	22:17:01	DLG	492654.36	5310686.08	Unknown	2197.372	4.3	231.399°	Site - Grotto,VID_GRAB,looking at structure by Grotto for diffuse flow,,
EVT	00/07/29	22:17:41	DLG	492654.25	5310687.80	Unknown	2199.179	2.5	228.727°	Site - Grotto,VID_GRAB,"looking under ledge on the structure, some but very little diffuse flow",,,
EVT	00/07/29	22:20:45	DLG	492659.84	5310681.23	Unknown	2195.632	6.6	176.029°	Site - Grotto,VID_GRAB,"heavy diffuse flow with smoker in behind, northeast region of Grotto looking at ledge that Chris found diffuse flow on",,,
EVT	00/07/29	22:21:24	DLG	492659.84	5310681.23	Unknown	2194.552	3.9	145.854°	Site - Grotto,going in to look at the rest of Grotto,,,
EVT	00/07/29	22:22:53	DLG	492654.90	5310684.98	Unknown	2194.858	3.4	133.739°	Site - Grotto,"confirmed, we are looking at ""Chris's ledge"" in the northeast portion of Grotto",,,
EVT	00/07/29	22:23:30	DLG	492654.90	5310684.98	Unknown	2194.791	2.8	148.657°	Site - Grotto,approaching wall of Grotto performing visual survey,,,
EVT	00/07/29	22:23:42	DLG	492653.35	5310678.63	Unknown	2194.792	2.8	144.997°	Site - Grotto,VID_GRAB,diffuse flow,,
EVT	00/07/29	22:38:27	DLG	492649.94	5310679.56	Unknown	2195.856	2.1	116.172°	Site - Grotto,, DIFFUSE,, Start Rec.,D2 00G29294 (293 had wrong settings), performing scan within visual range at base
EVT	00/07/29	22:39:36	DLG	492648.98	5310676.62	Unknown	2185.730	11.9	115.722°	Site - Grotto,, Stop Rec.,,
EVT	00/07/29	22:39:53	DLG	492648.98	5310676.62	Unknown	2187.267	10.5	112.837°	Site - Grotto,head back down for another angle,,,
EVT	00/07/29	22:41:37	DLG	492648.88	5310680.20	Unknown	2195.257	2.6	181.932°	Site - Grotto,setting up for another elevator looking south 180 degrees,,,
EVT	00/07/29	22:49:31	DLG	492650.97	5310677.40	Unknown	2195.178	2.6	175.093°	Site - Grotto,, Start Rec.,00G29295,
EVT	00/07/29	22:52:45	DLG	492643.07	5310679.48	Unknown	2195.476	2.5	181.778°	Site - Grotto,00G29295 not started yet,,,
EVT	00/07/29	22:54:25	DLG	492646.86	5310672.11	Unknown	2195.273	1.5	143.575°	Site - Grotto,VID_GRAB,north wall of Grotto,,
EVT	00/07/29	22:56:19	DLG	492646.86	5310672.11	Unknown	2195.255	1.8	127.036°	Site - Grotto,VID_GRAB,Grotto's north part ,,
EVT	00/07/29	22:57:21	DLG	492646.86	5310672.11	Unknown	2195.169	1.9	125.596°	Site - Grotto,looking south,,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/29	23:00:36	DLG	492632.93	5310677.66	Unknown	2195.309	1.7	179.759°	Site - Grotto,moving laterally to the west,,
EVT	00/07/29	23:04:17	DLG	492641.47	5310662.88	Unknown	2190.291	4.4	110.098°	Site - Grotto,VID_GRAB,north part of Grotto,,
EVT	00/07/29	23:04:30	DLG	492641.47	5310662.88	Unknown	2190.258	4.6	109.972°	Site - Grotto,VID_GRAB,black smoker on Grotto,,
EVT	00/07/29	23:07:33	DLG	492645.45	5310663.32	Unknown	2190.144	5.1	258.150°	Site - Grotto,turning due west,,
EVT	00/07/29	23:07:45	DLG	492645.93	5310663.41	Unknown	2190.112	2.1	258.266°	Site - Grotto,looking at Grotto,,
EVT	00/07/29	23:08:55	DLG	492646.16	5310662.31	Unknown	2188.580	2.5	255.771°	Site - Grotto,VID_GRAB,biobox
EVT	00/07/29	23:15:15	DLG	492644.84	5310662.46	Unknown	2188.570	3.1	271.209°	Site - Grotto,trying to figure where we are,
EVT	00/07/29	23:15:23	DLG	492644.84	5310662.46	Unknown	2188.531	3.2	270.944°	Site - Grotto,looking west,
EVT	00/07/29	23:15:31	DLG	492644.84	5310662.46	Unknown	2188.608	3.5	271.094°	Site - Grotto,VID_GRAB,west view
EVT	00/07/29	23:15:49	DLG	492646.29	5310661.38	Unknown	2188.615	2.6	310.018°	Site - Grotto,turning north,
EVT	00/07/29	23:19:55	DLG	492647.44	5310661.26	Unknown	2188.461	6.9	209.432°	Site - Grotto,looking SW,
EVT	00/07/29	23:20:18	DLG	492647.09	5310661.57	Unknown	2188.466	6.9	209.779°	Site - Grotto,VID_GRAB,probably SW part of Grotto
EVT	00/07/29	23:22:51	DLG	492645.85	5310662.71	Unknown	2188.312	6.8	208.635°	Site - Grotto,VID_GRAB,smoker on SW part of Grotto
EVT	00/07/29	23:26:08	DLG	492646.60	5310661.82	Unknown	2179.275	15.2	206.391°	Site - Grotto,checking: maybe a problem with Jason,
EVT	00/07/29	23:27:25	DLG	492645.83	5310661.00	Unknown	2168.447	23.5	210.068°	Site - Grotto,"maybe wynch problem, not Jason",
EVT	00/07/29	23:28:14	DLG	492645.57	5310661.48	Unknown	2158.968	30	209.942°	Site - Grotto,going up to test the wynch,
EVT	00/07/29	23:32:54	DLG	492645.99	5310678.15	Unknown	2156.441	30	212.082°	Site - Grotto,VID_GRAB,miss
EVT	00/07/29	23:34:00	DLG	492644.84	5310677.54	Unknown	2151.761	30	211.050°	Site - Grotto,"stop winch, cable 2120m",
EVT	00/07/29	23:34:33	DLG	492645.48	5310675.74	Unknown	2145.115	30	210.508°	Site - Grotto,going up winch,
EVT	00/07/29	23:35:18	DLG	492644.87	5310674.29	Unknown	2142.557	30	210.241°	Site - Grotto,stop winch,
EVT	00/07/29	23:49:26	DLG	492635.03	5310765.71	Unknown	2138.351	30	300.730°	winch is fine,,
EVT	00/07/29	23:56:46	DLG	492652.93	5310772.22	Unknown	2190.812	5.5	89.733°	wynch's problem solved-going down

Event Log VIP 2000 Cruise 7/30/00										
	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	00:04:05	DLG	492677.16	5310769.87	Unknown	2194.552	2.8	86.190°	moving west to Hulk,,
EVT	00/07/30	00:06:56	DLG	492716.39	5310768.97	Unknown	2196.580	3.4	96.000°	moving east,,
EVT	00/07/30	00:07:03	DLG	492716.39	5310768.97	Unknown	2196.307	3.6	129.903°	nto west,,
EVT	00/07/30	00:07:12	DLG	492716.39	5310768.97	Unknown	2195.335	5	198.212°	that's not west,,
EVT	00/07/30	00:28:47	DLG	492741.40	5310776.56	Unknown	2197.484	2.9	85.968°	heading to diffuse flow fields north of Hulk,,
EVT	00/07/30	00:31:03	DLG	492753.30	5310776.43	Unknown	2197.244	6.2	128.975°	Site - Hulk,in visual range of north end of Hulk,
EVT	00/07/30	00:31:24	DLG	492753.30	5310776.43	Unknown	2197.244	6.5	157.235°	Site - Hulk,VID_GRAB,fish at base of Hulk
EVT	00/07/30	00:34:17	DLG	492753.30	5310776.43	Unknown	2197.327	6.7	173.694°	Site - Hulk,waiting for Medea to position above Jason,
EVT	00/07/30	00:37:36	DLG	492753.30	5310776.43	Unknown	2201.927	2	89.707°	Site - Hulk,searching for diffuse flow,
EVT	00/07/30	00:38:57	DLG	492763.88	5310774.98	Unknown	2202.850	2	110.358°	Site - Hulk,VID_GRAB,"diffuse flow sited, moving into position"
EVT	00/07/30	00:52:34	DLG	492760.63	5310783.91	Unknown	2204.896	0.9	101.382°	Site - Hulk,VID_GRAB,K's probe at Hulk
EVT	00/07/30	00:53:04	DLG	492760.63	5310783.91	Unknown	2204.860	0.9	101.269°	Site - Hulk,last measure was at bottom,
EVT	00/07/30	00:53:32	DLG	492760.63	5310783.91	Unknown	2204.906	0.9	101.249°	Site - Hulk,VID_GRAB,2nd measure-30 cm up the bottom
EVT	00/07/30	00:55:57	DLG	492760.63	5310783.91	Unknown	2204.849	0.9	101.142°	Site - Hulk,measuring the diffuse flow right now,
EVT	00/07/30	00:58:03	DLG	492760.63	5310783.91	Unknown	2204.909	0.9	99.551°	Site - Hulk,VID_GRAB,3rd measure at Hulk-at bottom
EVT	00/07/30	01:03:03	DLG	492760.63	5310783.91	Unknown	2204.899	0.9	95.523°	Site - Hulk,VID_GRAB,4rd measure at Hulk
EVT	00/07/30	01:12:53	DLG	492769.34	5310773.91	Unknown	2204.886	0.9	201.514°	Site - Hulk,VID_GRAB,Hulk
EVT	00/07/30	01:13:19	DLG	492769.16	5310772.52	Unknown	2204.898	30	184.912°	Site - Hulk,"sitting on Hulk, looking for temp measures and worms",
EVT	00/07/30	01:19:23	DLG	492768.83	5310772.57	Unknown	2204.958	0.8	209.320°	Site - Hulk,VID_GRAB,another temp measure at Hulk
EVT	00/07/30	01:22:23	DLG	492767.13	5310773.55	Unknown	2204.965	0.7	204.379°	Site - Hulk,VID_GRAB,temp measure 15 cm up the bottom
EVT	00/07/30	01:25:05	DLG	492765.26	5310778.54	Unknown	2204.902	0.8	204.287°	Site - Hulk,VID_GRAB,temp measure
EVT	00/07/30	01:26:03	DLG	492768.45	5310772.60	Unknown	2204.852	0.8	204.285°	Site - Hulk,VID_GRAB,temp measure on Hulk
EVT	00/07/30	01:30:07	DLG	492768.94	5310773.53	Unknown	2204.830	0.8	204.603°	Site - Hulk,VID_GRAB,temp sample
EVT	00/07/30	01:33:18	DLG	492766.72	5310774.48	Unknown	2204.852	0.8	204.047°	Site - Hulk,VID_GRAB,temp measure
EVT	00/07/30	01:36:40	DLG	492767.89	5310773.70	Unknown	2204.776	0.8	204.271°	Site - Hulk,VID_GRAB,Just over the worm that are going to be picked up
EVT	00/07/30	01:40:26	DLG	492766.27	5310775.77	Unknown	2204.784	0.8	204.354°	Site - Hulk,VID_GRAB,do it it's there temp measure
EVT	00/07/30	01:50:48	DLG	492761.63	5310782.65	Unknown	2204.729	0.9	188.013°	Site - Hulk,VID_GRAB,target for sampling
EVT	00/07/30	01:51:56	DLG	492763.17	5310779.40	Unknown	2204.678	0.9	188.248°	Site - Hulk,VID_GRAB,sampling

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	01:53:23	DLG	492766.26	5310775.13	Unknown	2204.630	1	188.490°	Site - Hulk,VID_GRAB,sampling
EVT	00/07/30	01:54:22	DLG	492766.39	5310776.55	Unknown	2204.683	1	188.112°	Site - Hulk,VID_GRAB,sampling
EVT	00/07/30	01:57:51	DLG	492764.50	5310777.53	Unknown	2204.686	1.2	190.248°	Site - Hulk,try another worm sample,
EVT	00/07/30	02:00:44	DLG	492769.48	5310772.88	Unknown	2204.601	1.2	181.223°	Site - Hulk,finish sampling,
EVT	00/07/30	02:02:01	DLG	492769.48	5310772.88	Unknown	2204.601	1.1	164.465°	Site - Hulk,moving little,
EVT	00/07/30	02:03:36	DLG	492763.86	5310780.43	Unknown	2204.652	1.1	164.619°	Site - Hulk,VID_GRAB,taking sample
EVT	00/07/30	02:07:54	DLG	492762.61	5310774.17	Unknown	2203.293	0.9	235.217°	Site - Hulk,VID_GRAB,crack near Hulk
EVT	00/07/30	02:15:54	DLG	492762.61	5310774.17	Unknown	2203.262	0.7	228.249°	Site - Hulk,VID_GRAB,temp measure over the crack
EVT	00/07/30	02:20:03	DLG	492762.61	5310774.17	Unknown	2203.337	0.8	228.352°	Site - Hulk,VID_GRAB,measuring the temp right in the crack
EVT	00/07/30	02:23:36	DLG	492762.61	5310774.17	Unknown	2203.408	0.8	228.389°	Site - Hulk,VID_GRAB,over crack again
EVT	00/07/30	02:31:33	DLG	492762.61	5310774.17	Unknown	2203.354	0.8	217.957°	Site - Hulk,VID_GRAB,another temp measure on the crack
EVT	00/07/30	02:35:12	DLG	492762.61	5310774.17	Unknown	2203.334	0.9	216.768°	Site - Hulk,VID_GRAB,jut up the crack-2nd site
EVT	00/07/30	02:40:30	DLG	492762.61	5310774.17	Unknown	2203.378	1	218.290°	Site - Hulk,VID_GRAB,2nd site- upper
EVT	00/07/30	02:41:45	DLG	492762.61	5310774.17	Unknown	2203.405	1	217.138°	Site - Hulk,VID_GRAB,close up-same sample
EVT	00/07/30	02:49:13	DLG	494052.24	5313725.83	Unknown	2203.462	0.9	216.068°	Site - Hulk,VID_GRAB,
EVT	00/07/30	02:49:21	DLG	494052.69	5313721.87	Unknown	2203.451	1	216.043°	Site - Hulk,jason is muscular,
EVT	00/07/30	02:49:33	DLG	494052.69	5313721.87	Unknown	2203.495	0.9	216.028°	Site - Hulk,look at the biceps!!!!!!,
EVT	00/07/30	02:55:19	DLG	494049.12	5313674.75	Unknown	2203.490	0.9	216.477°	Site - Hulk,VID_GRAB,
EVT	00/07/30	02:57:04	DLG	494045.93	5313700.32	Unknown	2203.443	0.9	216.952°	Site - Hulk,VID_GRAB,
EVT	00/07/30	02:57:16	DLG	494045.93	5313700.32	Unknown	2203.429	0.9	216.869°	Site-Hulk,,
EVT	00/07/30	02:57:26	DLG	494045.93	5313700.32	Unknown	2203.470	0.9	217.102°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:03:45	DLG	495889.34	5323603.07	Unknown	2203.470	0.9	217.765°	Site-Hulk,We are not getting Jason topside data on the data loggers
EVT	00/07/30	03:03:53	DLG	495889.34	5323603.07	Unknown	2203.470	0.9	217.765°	Site-Hulk,They are fixing it
EVT	00/07/30	03:17:53	DLG	492746.15	5310780.05	Unknown	2199.176	3.7	192.527°	Site-Hulk,yep they fixed it
EVT	00/07/30	03:18:09	DLG	492746.15	5310780.05	Unknown	2197.665	5.1	189.755°	Site-Hulk,going down to point no 25...
EVT	00/07/30	03:18:14	DLG	492748.71	5310761.75	Unknown	2196.699	5.3	188.203°	Site-Hulk,going south
EVT	00/07/30	03:20:21	DLG	492743.26	5310765.01	Unknown	2199.885	1.2	187.664°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:21:15	DLG	492741.05	5310757.97	Unknown	2200.507	1.6	179.539°	Site-Hulk,Almost there
EVT	00/07/30	03:23:11	DLG	492737.88	5310761.27	Unknown	2203.426	7.3	144.227°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:23:23	DLG	492742.59	5310757.26	Unknown	2203.136	7.1	142.172°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:23:36	DLG	492744.50	5310757.69	Unknown	2202.290	6.8	143.516°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:23:41	DLG	492744.50	5310757.69	Unknown	2201.744	8.1	139.896°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:23:53	DLG	492744.50	5310757.69	Unknown	2200.944	7.6	154.625°	Site-Hulk,We are taking still images also
EVT	00/07/30	03:24:37	DLG	492748.98	5310759.36	Unknown	2197.503	5	144.560°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:24:48	DLG	492748.98	5310759.36	Unknown	2197.179	5	173.049°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:24:57	DLG	492752.27	5310759.51	Unknown	2196.127	6.9	172.888°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:25:11	DLG	492752.27	5310759.51	Unknown	2193.474	9.1	189.962°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:25:42	DLG	492754.15	5310760.11	Unknown	2190.376	11.9	188.133°	Site-Hulk,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	03:25:48	DLG	492754.15	5310760.11	Unknown	2189.358	12.8	187.150°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:25:55	DLG	492755.70	5310763.08	Unknown	2188.312	15.3	188.601°	Site-Hulk,Its Smoking !
EVT	00/07/30	03:26:05	DLG	492755.70	5310763.08	Unknown	2187.400	16	186.505°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:26:11	DLG	492755.70	5310763.08	Unknown	2186.628	16	190.859°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:26:30	DLG	492761.03	5310763.60	Unknown	2185.563	14.6	186.693°	Site-Hulk,Its Crypto
EVT	00/07/30	03:29:25	DLG	492732.60	5310757.99	Unknown	2199.289	1.7	142.856°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:29:40	DLG	492730.30	5310753.17	Unknown	2199.768	2.4	161.055°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:30:24	DLG	492730.30	5310753.17	Unknown	2200.074	4.9	131.896°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:31:08	DLG	492750.08	5310739.96	Unknown	2201.559	2.2	135.081°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:31:14	DLG	492750.08	5310739.96	Unknown	2202.192	1.8	131.813°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:31:24	DLG	492751.85	5310739.76	Unknown	2203.012	2.2	137.012°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:31:32	DLG	492751.85	5310739.76	Unknown	2203.039	2.4	137.864°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:32:29	DLG	492755.47	5310738.04	Unknown	2205.723	30	108.733°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:32:58	DLG	492756.26	5310738.80	Unknown	2205.533	30	133.804°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:33:12	DLG	492756.26	5310738.80	Unknown	2205.692	30	136.596°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:33:37	DLG	492756.94	5310737.94	Unknown	2204.484	1	193.518°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:33:49	DLG	492756.94	5310737.94	Unknown	2204.764	0.7	189.613°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:34:22	DLG	492754.70	5310738.98	Unknown	2205.246	0.8	194.009°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:34:58	DLG	492756.34	5310738.40	Unknown	2204.953	30	223.717°	Site-Hulk,No.25 is a diffuse flow area
EVT	00/07/30	03:35:06	DLG	492756.34	5310738.40	Unknown	2204.926	30	226.615°	Site-Hulk,we are at that place
EVT	00/07/30	03:35:09	DLG	492756.34	5310738.40	Unknown	2205.073	30	224.629°	Site-Hulk,no 25
EVT	00/07/30	03:35:20	DLG	492753.33	5310740.38	Unknown	2204.893	0.8	207.258°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:35:25	DLG	492753.33	5310740.38	Unknown	2204.800	0.7	204.562°	Site-Hulk,site looks pretty good
EVT	00/07/30	03:35:37	DLG	492755.22	5310738.70	Unknown	2205.106	1.4	165.283°	Site-Hulk,especially in terms of diffuse flow
EVT	00/07/30	03:35:49	DLG	492755.22	5310738.70	Unknown	2205.170	1.6	157.775°	Site-Hulk,and in terms of the vegetation around it
EVT	00/07/30	03:36:06	DLG	492754.51	5310737.98	Unknown	2205.204	1.5	157.615°	Site-Hulk,should be a good harvest for the bio guys
EVT	00/07/30	03:36:39	DLG	492753.77	5310738.46	Unknown	2205.177	30	157.404°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:38:11	DLG	492755.21	5310738.87	Unknown	2205.441	30	157.038°	Site-Hulk,Changed tapes
EVT	00/07/30	03:39:38	DLG	492755.09	5310739.03	Unknown	2205.483	1.7	157.040°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:39:46	DLG	492755.09	5310739.03	Unknown	2205.509	1.7	157.082°	Site-Hulk,putting the temp probe into the water
EVT	00/07/30	03:39:54	DLG	492743.86	5310738.41	Unknown	2205.513	1.6	157.167°	Site-Hulk,in position
EVT	00/07/30	03:39:57	DLG	492743.86	5310738.41	Unknown	2205.571	30	157.201°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:41:30	DLG	492755.20	5310738.51	Unknown	2205.633	1.7	157.469°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:41:59	DLG	492755.59	5310738.56	Unknown	2205.595	1.7	157.118°	Site-Hulk,Recording the temp probe data
EVT	00/07/30	03:42:01	DLG	492755.59	5310738.56	Unknown	2205.608	1.7	157.113°	Site-Hulk,now
EVT	00/07/30	03:43:39	DLG	492755.02	5310738.50	Unknown	2205.577	1.7	149.286°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:44:16	DLG	492754.71	5310739.09	Unknown	2205.599	1.7	149.349°	Site-Hulk,"Probe 5cm above rock (No! No! not Rock and Roll, just rock)"
EVT	00/07/30	03:50:59	DLG	492755.47	5310738.60	Unknown	2205.519	28.2	148.108°	Site-Hulk,VID_GRAB
EVT	00/07/30	03:51:13	DLG	492755.47	5310738.60	Unknown	2205.610	1.7	148.218°	Site-Hulk,Sea bird temp probe 30 cm above the floor
EVT	00/07/30	03:51:26	DLG	492752.25	5310737.95	Unknown	2205.608	1.4	148.288°	Site-Hulk,they lifted it up

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	03:52:17	DLG	492751.98	5310737.49	Unknown	2205.583	1.5	148.750°	Site-Hulk, lifting it up again
EVT	00/07/30	03:52:56	DLG	492755.10	5310738.75	Unknown	2205.584	30	148.873°	Site-Hulk, probe now 40 cm above the floor
EVT	00/07/30	03:54:47	DLG	492754.91	5310738.88	Unknown	2205.671	1.7	148.825°	Site-Hulk, lifted it up again
EVT	00/07/30	03:54:56	DLG	492755.17	5310737.87	Unknown	2205.664	1.7	148.818°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:00:53	DLG	492756.57	5310740.18	Unknown	2202.591	1.9	180.564°	Site-Hulk, moving from that place to another one
EVT	00/07/30	04:01:10	DLG	492754.42	5310742.67	Unknown	2203.028	1.3	187.544°	Site-Hulk, the probe looks like a micophone
EVT	00/07/30	04:01:13	DLG	492754.42	5310742.67	Unknown	2202.922	1.6	187.733°	Site-Hulk,,
EVT	00/07/30	04:01:17	DLG	492752.30	5310743.95	Unknown	2202.568	1.9	187.698°	Site-Hulk, :-P ,
EVT	00/07/30	04:01:37	DLG	492751.89	5310744.93	Unknown	2202.440	2.1	186.122°	Site-Hulk, fading the camera,
EVT	00/07/30	04:01:40	DLG	492751.89	5310744.93	Unknown	2202.919	1.5	185.696°	Site-Hulk, P&T,
EVT	00/07/30	04:01:42	DLG	492751.89	5310744.93	Unknown	2203.170	1.4	185.231°	Site-Hulk, one,
EVT	00/07/30	04:01:46	DLG	492751.89	5310744.93	Unknown	2203.663	1.1	187.019°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:01:53	DLG	492751.89	5310744.93	Unknown	2203.616	1	187.986°	Site-Hulk, it just got out of focus,
EVT	00/07/30	04:01:54	DLG	492752.99	5310744.63	Unknown	2203.623	1.1	188.092°	Site-Hulk, I guess,
EVT	00/07/30	04:01:57	DLG	492752.99	5310744.63	Unknown	2203.496	1.2	187.910°	Site-Hulk, yes,
EVT	00/07/30	04:01:58	DLG	492752.99	5310744.63	Unknown	2203.344	1.3	187.817°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:02:03	DLG	492752.99	5310744.63	Unknown	2203.043	1.6	185.540°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:02:07	DLG	492752.99	5310744.63	Unknown	2202.797	1.8	185.660°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:02:14	DLG	492751.91	5310745.43	Unknown	2202.754	1.7	186.735°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:02:22	DLG	492751.91	5310745.43	Unknown	2202.881	1.6	186.425°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:02:26	DLG	492751.91	5310745.43	Unknown	2202.694	1.6	187.536°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:02:30	DLG	492751.91	5310745.43	Unknown	2202.486	1.8	187.303°	Site-Hulk, VID_GRAB, +
EVT	00/07/30	04:02:39	DLG	492751.14	5310743.49	Unknown	2202.892	1.4	175.475°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:02:44	DLG	492751.14	5310743.49	Unknown	2203.090	1.1	161.729°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:02:58	DLG	492750.93	5310742.43	Unknown	2203.536	1	161.157°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:03:05	DLG	492750.93	5310742.43	Unknown	2203.309	1.2	160.742°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:03:15	DLG	492748.84	5310742.14	Unknown	2203.063	1.4	161.062°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:03:25	DLG	492748.84	5310742.14	Unknown	2202.981	1.4	160.636°	Site-Hulk, setting the temp probe again
EVT	00/07/30	04:03:29	DLG	492748.84	5310742.14	Unknown	2202.948	1.5	160.605°	Site-Hulk, for measurement
EVT	00/07/30	04:03:36	DLG	492748.16	5310741.49	Unknown	2203.432	1.1	160.845°	Site-Hulk, bringing it down
EVT	00/07/30	04:03:52	DLG	492748.16	5310741.49	Unknown	2203.878	1	140.383°	Site-Hulk, we are around the no.25 spot
EVT	00/07/30	04:03:57	DLG	492750.13	5310742.18	Unknown	2203.878	30	140.764°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:03:59	DLG	492750.13	5310742.18	Unknown	2203.765	1.4	141.902°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:04:00	DLG	492750.13	5310742.18	Unknown	2203.678	0.7	141.854°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:04:02	DLG	492750.13	5310742.18	Unknown	2203.637	0.7	142.136°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:04:03	DLG	492750.13	5310742.18	Unknown	2203.589	0.7	141.780°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:04:04	DLG	492750.13	5310742.18	Unknown	2203.538	0.7	140.985°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:04:05	DLG	492750.13	5310742.18	Unknown	2203.417	0.7	140.234°	Site-Hulk, VID_GRAB
EVT	00/07/30	04:04:07	DLG	492750.13	5310742.18	Unknown	2203.478	0.7	139.703°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:04:08	DLG	492750.13	5310742.18	Unknown	2203.465	0.7	137.151°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:04:09	DLG	492750.13	5310742.18	Unknown	2203.551	0.7	133.104°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:04:13	DLG	492750.13	5310742.18	Unknown	2203.836	30	122.721°	Site-Hulk, VID_GRAB,
EVT	00/07/30	04:04:16	DLG	492748.51	5310740.92	Unknown	2203.915	30	118.603°	Site-Hulk, VID_GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	04:04:19	DLG	492748.51	5310740.92	Unknown	2203.987	30	115.145°	Site-Hulk,VID_GRAB,
EVT	00/07/30	04:04:29	DLG	492748.51	5310740.92	Unknown	2204.013	0.9	110.192°	Site-Hulk,this place is too hot,
EVT	00/07/30	04:04:33	DLG	492748.51	5310740.92	Unknown	2203.747	1.1	118.552°	Site-Hulk,VID_GRAB,
EVT	00/07/30	04:04:39	DLG	492750.10	5310742.41	Unknown	2203.813	1.5	114.556°	Site-Hulk,VID_GRAB,
EVT	00/07/30	04:04:46	DLG	492750.10	5310742.41	Unknown	2204.080	1.7	107.681°	Site-Hulk,the water looks hot,
EVT	00/07/30	04:04:59	DLG	492751.53	5310739.80	Unknown	2204.206	1.5	106.059°	Site-Hulk,VID_GRAB,,
EVT	00/07/30	04:05:03	DLG	492751.53	5310739.80	Unknown	2204.051	1.7	106.947°	Site-Hulk,VID_GRAB,
EVT	00/07/30	04:05:10	DLG	492751.53	5310739.80	Unknown	2204.004	30	117.187°	Site-Hulk,VID_GRAB,
EVT	00/07/30	04:06:04	DLG	492749.30	5310739.01	Unknown	2202.441	1.8	168.463°	Site-Hulk,VID_GRAB,
EVT	00/07/30	04:06:16	DLG	492751.75	5310741.55	Unknown	2202.701	1.6	195.934°	Site-Hulk,we are finding another good spot at no.25,
EVT	00/07/30	04:06:25	DLG	492751.75	5310741.55	Unknown	2202.807	1.5	195.448°	Site-Hulk,to sit and record,
EVT	00/07/30	04:06:26	DLG	492751.75	5310741.55	Unknown	2202.581	1.5	195.442°	Site-Hulk,temp data
EVT	00/07/30	04:06:28	DLG	492751.75	5310741.55	Unknown	2202.627	1.6	195.549°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:06:37	DLG	492752.74	5310743.09	Unknown	2202.592	1.9	198.288°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:06:40	DLG	492752.74	5310743.09	Unknown	2202.511	1.9	207.224°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:06:42	DLG	492752.74	5310743.09	Unknown	2202.505	1.7	206.711°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:06:50	DLG	492752.74	5310743.09	Unknown	2202.471	1.7	204.797°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:06:51	DLG	492752.74	5310743.09	Unknown	2202.385	1.8	201.475°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:06:52	DLG	492752.74	5310743.09	Unknown	2202.338	1.9	200.220°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:06:54	DLG	492750.43	5310745.27	Unknown	2202.225	2	199.181°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:06:59	DLG	492750.43	5310745.27	Unknown	2201.905	2.4	193.959°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:07:07	DLG	492750.43	5310745.27	Unknown	2201.399	2.9	193.057°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:07:12	DLG	492750.43	5310745.27	Unknown	2201.290	2.6	197.193°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:07:15	DLG	492753.26	5310746.15	Unknown	2201.550	2.3	196.922°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:07:20	DLG	492753.26	5310746.15	Unknown	2201.716	2.2	192.447°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:07:22	DLG	492753.26	5310746.15	Unknown	2201.690	2.4	191.891°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:07:29	DLG	492753.26	5310746.15	Unknown	2201.543	2.9	192.793°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:07:37	DLG	492755.98	5310746.37	Unknown	2202.003	3.2	202.809°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:07:47	DLG	492755.98	5310746.37	Unknown	2202.530	2.7	210.797°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:08:06	DLG	492756.78	5310745.25	Unknown	2201.224	4.6	202.897°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:08:08	DLG	492756.78	5310745.25	Unknown	2201.307	4.5	208.561°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:08:50	DLG	492757.93	5310744.00	Unknown	2204.073	1.6	232.909°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:09:06	DLG	492757.81	5310742.35	Unknown	2205.062	0.7	230.840°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:09:08	DLG	492757.81	5310742.35	Unknown	2205.105	0.8	229.670°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:09:17	DLG	492755.17	5310742.95	Unknown	2205.003	0.8	226.326°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:09:20	DLG	492755.17	5310742.95	Unknown	2205.032	0.8	223.789°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:09:33	DLG	492755.17	5310742.95	Unknown	2204.949	1.6	206.172°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:09:36	DLG	492743.59	5310742.48	Unknown	2205.071	1.4	203.789°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:09:48	DLG	492743.59	5310742.48	Unknown	2204.239	1.2	195.886°	Site-Hulk,lifting it up
EVT	00/07/30	04:09:50	DLG	492743.59	5310742.48	Unknown	2204.165	1.3	201.571°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:10:06	DLG	492757.07	5310742.08	Unknown	2203.487	1.2	218.838°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:10:11	DLG	492757.07	5310742.08	Unknown	2202.765	1.3	234.159°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:10:51	DLG	492753.06	5310745.87	Unknown	2202.427	1.4	214.724°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:11:01	DLG	492753.06	5310745.87	Unknown	2202.367	1.2	223.902°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:11:10	DLG	492753.06	5310745.87	Unknown	2202.787	27.3	174.040°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:11:20	DLG	492753.06	5310745.87	Unknown	2201.854	1.5	171.286°	Site-Hulk,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	04:11:22	DLG	492753.06	5310745.87	Unknown	2201.796	1.7	171.323°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:11:26	DLG	492753.06	5310745.87	Unknown	2201.055	2.3	171.201°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:12:58	DLG	492750.86	5310737.74	Unknown	2204.117	30	100.851°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:13:00	DLG	492750.86	5310737.74	Unknown	2204.110	30	96.297°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:13:05	DLG	492750.86	5310737.74	Unknown	2204.240	1.5	95.382°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:13:39	DLG	492747.52	5310738.74	Unknown	2203.387	0.8	168.359°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:14:12	DLG	492749.08	5310740.15	Unknown	2203.817	30	110.603°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:14:16	DLG	492747.27	5310742.22	Unknown	2203.782	1.2	116.899°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:15:31	DLG	492750.81	5310739.04	Unknown	2203.860	30	134.028°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:15:40	DLG	492748.65	5310739.03	Unknown	2203.873	30	134.462°	Site-Hulk,setting it up again for recording
EVT	00/07/30	04:15:47	DLG	492748.65	5310739.03	Unknown	2203.900	30	134.266°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:16:43	DLG	492750.15	5310737.92	Unknown	2203.967	30	133.767°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:17:12	DLG	492750.15	5310737.92	Unknown	2204.113	30	134.207°	Site-Hulk,diffuse flow target area 25...probe touching the ground
EVT	00/07/30	04:18:35	DLG	492751.18	5310738.35	Unknown	2204.395	14.6	134.616°	Site-Hulk,now the probe is 10cm above...
EVT	00/07/30	04:18:39	DLG	492751.18	5310738.35	Unknown	2204.361	30	134.909°	Site-Hulk,for 2 mins
EVT	00/07/30	04:19:09	DLG	492749.55	5310738.71	Unknown	2204.415	30	134.093°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:20:09	DLG	492752.22	5310738.30	Unknown	2204.639	30	134.131°	Site-Hulk,lifting it up
EVT	00/07/30	04:20:23	DLG	492745.55	5310737.17	Unknown	2204.793	30	134.487°	Site-Hulk,around 40 cm from the ground
EVT	00/07/30	04:22:03	DLG	492744.82	5310737.75	Unknown	2205.002	1.7	133.569°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:22:13	DLG	492744.82	5310737.75	Unknown	2205.040	15.3	134.065°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:23:04	DLG	492750.21	5310738.21	Unknown	2205.019	30	133.932°	Site-Hulk,now little higher
EVT	00/07/30	04:23:06	DLG	492750.21	5310738.21	Unknown	2205.012	30	133.881°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:24:09	DLG	492751.25	5310738.13	Unknown	2205.169	30	133.625°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:24:14	DLG	492751.25	5310738.13	Unknown	2205.193	30	133.720°	Site-Hulk,lifting it higher
EVT	00/07/30	04:25:25	DLG	492750.73	5310737.43	Unknown	2205.206	30	133.880°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:25:29	DLG	492750.73	5310737.43	Unknown	2205.216	30	134.373°	Site-Hulk,still highe
EVT	00/07/30	04:25:31	DLG	492750.73	5310737.43	Unknown	2205.250	28	134.257°	Site-Hulk,higher
EVT	00/07/30	04:25:33	DLG	492750.73	5310737.43	Unknown	2205.229	30	134.118°	Site-Hulk,
EVT	00/07/30	04:27:43	DLG	492745.96	5310738.11	Unknown	2205.001	30	133.330°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:27:46	DLG	492745.96	5310738.11	Unknown	2205.033	30	133.474°	Site-Hulk,sitll
EVT	00/07/30	04:27:48	DLG	492745.96	5310738.11	Unknown	2205.012	30	133.623°	Site-Hulk,still
EVT	00/07/30	04:28:06	DLG	492750.86	5310737.88	Unknown	2204.954	30	134.073°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:28:06	DLG	492750.86	5310737.88	Unknown	2204.954	30	134.073°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:28:06	DLG	492750.86	5310737.88	Unknown	2204.954	30	134.050°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:28:07	DLG	492750.86	5310737.88	Unknown	2204.954	30	134.049°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:28:08	DLG	492750.86	5310737.88	Unknown	2204.954	1.6	133.956°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:28:10	DLG	492750.86	5310737.88	Unknown	2204.988	30	133.732°	Site-Hulk,VID_GRAB
EVT	00/07/30	04:28:19	DLG	492747.43	5310737.94	Unknown	2204.952	30	134.364°	Site-Hulk,nice diffuse flow here
EVT	00/07/30	04:28:23	DLG	492747.43	5310737.94	Unknown	2204.923	30	134.263°	Site-Hulk,good to see it
EVT	00/07/30	04:28:41	DLG	492749.88	5310737.04	Unknown	2204.872	30	134.889°	Site-Hulk,>---(:)-->
EVT	00/07/30	04:29:08	DLG	492751.45	5310738.10	Unknown	2204.734	30	134.303°	Site -Hulk,
EVT	00/07/30	04:29:16	DLG	492751.45	5310738.10	Unknown	2204.807	18.8	134.103°	Site - Hulk,
EVT	00/07/30	04:29:31	DLG	492751.45	5310738.10	Unknown	2204.805	28.9	134.146°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:30:35	DLG	492743.65	5310735.80	Unknown	2204.616	30	134.414°	Site - Hulk,lets terminate this area

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	04:30:56	DLG	492751.28	5310738.00	Unknown	2204.637	30	134.722°	Site - Hulk,thinking of going on top of Grotto
EVT	00/07/30	04:31:18	DLG	492743.65	5310737.55	Unknown	2204.622	9.7	134.743°	Site - Hulk,putting the probe back into the basket
EVT	00/07/30	04:31:26	DLG	492743.65	5310737.55	Unknown	2204.562	30	134.786°	Site - Hulk,oops1
EVT	00/07/30	04:31:28	DLG	492743.65	5310737.55	Unknown	2204.616	30	134.604°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:31:32	DLG	492743.65	5310737.55	Unknown	2204.569	30	134.746°	Site - Hulk,try again
EVT	00/07/30	04:31:35	DLG	492741.91	5310737.72	Unknown	2204.539	30	134.934°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:31:39	DLG	492741.91	5310737.72	Unknown	2204.553	30	134.857°	Site - Hulk,oops!
EVT	00/07/30	04:31:45	DLG	492741.91	5310737.72	Unknown	2204.567	30	134.729°	Site - Hulk,Game Over!!
EVT	00/07/30	04:31:55	DLG	492749.42	5310737.64	Unknown	2204.560	30	135.115°	Site - Hulk,Ok! we
EVT	00/07/30	04:31:59	DLG	492749.42	5310737.64	Unknown	2204.517	30	135.082°	Site - Hulk,we're done
EVT	00/07/30	04:32:06	DLG	492749.42	5310737.64	Unknown	2204.515	30	135.083°	Site - Hulk,lets go then
EVT	00/07/30	04:32:09	DLG	492749.42	5310737.64	Unknown	2204.488	30	135.138°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:32:13	DLG	492749.42	5310737.64	Unknown	2204.488	30	135.082°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:32:21	DLG	492749.69	5310738.41	Unknown	2204.468	30	135.059°	Site - Hulk,still putting it in
EVT	00/07/30	04:32:23	DLG	492749.69	5310738.41	Unknown	2204.522	30	135.098°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:32:48	DLG	492750.20	5310738.21	Unknown	2204.460	30	134.713°	Site - Hulk,completed the expts. at site no.25
EVT	00/07/30	04:32:57	DLG	492751.80	5310737.24	Unknown	2204.460	30	134.599°	Site - Hulk,hopefully!!!!!!:-)
EVT	00/07/30	04:33:23	DLG	492737.82	5310738.22	Unknown	2204.524	6.6	133.839°	Site - Hulk,the Pilot is having a tough time putting the probe back into the basket
EVT	00/07/30	04:33:28	DLG	492737.82	5310738.22	Unknown	2204.528	30	133.758°	Site - Hulk,he finally did it
EVT	00/07/30	04:33:32	DLG	492737.82	5310738.22	Unknown	2204.501	27.9	133.723°	Site - Hulk,Alash!
EVT	00/07/30	04:33:48	DLG	492737.82	5310738.22	Unknown	2204.548	30	134.487°	Site - Hulk,resetting the arm to its intial postition
EVT	00/07/30	04:34:14	DLG	492741.66	5310737.35	Unknown	2204.477	1.8	133.793°	Site - Hulk,must be tough for Jason to stick its arm into very hot water
EVT	00/07/30	04:34:23	DLG	492741.66	5310737.35	Unknown	2204.470	28	133.635°	Site - Hulk,just for our amusement!
EVT	00/07/30	04:35:07	DLG	492749.26	5310738.05	Unknown	2204.412	30	133.853°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:36:11	DLG	492739.99	5310737.32	Unknown	2204.414	30	133.748°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:36:16	DLG	492739.99	5310737.32	Unknown	2204.447	20	133.996°	Site - Hulk,shimmering water
EVT	00/07/30	04:36:22	DLG	492739.99	5310737.32	Unknown	2204.458	30	134.000°	Site - Hulk,in the screen
EVT	00/07/30	04:36:38	DLG	492750.78	5310737.29	Unknown	2203.797	0.9	137.425°	Site - Hulk,hovering
EVT	00/07/30	04:36:43	DLG	492750.78	5310737.29	Unknown	2203.470	1.1	136.507°	Site - Hulk,lets go there
EVT	00/07/30	04:37:50	DLG	492738.74	5310742.28	Unknown	2202.703	6.7	235.275°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:38:03	DLG	492734.36	5310743.18	Unknown	2202.089	7.9	235.213°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:38:20	DLG	492734.36	5310743.18	Unknown	2200.880	2.2	233.404°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:38:38	DLG	492734.90	5310743.95	Unknown	2200.532	1.9	232.886°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:05	DLG	492721.93	5310736.74	Unknown	2200.532	1.5	228.143°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:10	DLG	492721.93	5310736.74	Unknown	2200.724	1.4	227.885°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:12	DLG	492721.93	5310736.74	Unknown	2200.758	1.3	228.253°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:15	DLG	492721.93	5310736.74	Unknown	2200.864	1.2	228.155°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:22	DLG	492721.93	5310736.74	Unknown	2200.805	1.3	229.364°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:25	DLG	492721.93	5310736.74	Unknown	2200.518	1.6	230.453°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:28	DLG	492721.93	5310736.74	Unknown	2200.258	1.8	228.007°	Site - Hulk,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	04:40:29	DLG	492721.93	5310736.74	Unknown	2200.158	1.9	230.179°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:31	DLG	492721.93	5310736.74	Unknown	2199.979	2	230.568°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:33	DLG	492721.93	5310736.74	Unknown	2199.885	2.1	228.871°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:35	DLG	492708.40	5310741.71	Unknown	2199.772	2.2	229.412°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:40:40	DLG	492708.40	5310741.71	Unknown	2199.439	2.5	229.485°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:41:48	DLG	492715.55	5310729.04	Unknown	2199.139	2.9	228.269°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:41:52	DLG	492715.55	5310729.04	Unknown	2199.086	3	226.961°	Site - Hulk,
EVT	00/07/30	04:41:53	DLG	492715.55	5310729.04	Unknown	2199.099	2.9	227.440°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:41:56	DLG	492717.11	5310723.63	Unknown	2199.199	2.9	228.071°	Site - Hulk,
EVT	00/07/30	04:41:58	DLG	492717.11	5310723.63	Unknown	2199.186	2.8	222.659°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:41:59	DLG	492717.11	5310723.63	Unknown	2199.206	2.8	216.174°	Site - Hulk,
EVT	00/07/30	04:42:00	DLG	492717.11	5310723.63	Unknown	2199.139	2.8	207.291°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:03	DLG	492717.11	5310723.63	Unknown	2199.166	2.7	203.021°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:13	DLG	492717.11	5310723.63	Unknown	2199.659	2.3	204.420°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:22	DLG	492717.11	5310723.63	Unknown	2199.646	2.5	204.479°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:28	DLG	492717.11	5310723.63	Unknown	2199.455	2.3	204.088°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:31	DLG	492717.11	5310723.63	Unknown	2199.432	2.2	200.168°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:34	DLG	492717.04	5310720.75	Unknown	2199.554	1.9	199.916°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:39	DLG	492717.04	5310720.75	Unknown	2199.490	1.9	205.110°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:46	DLG	492717.04	5310720.75	Unknown	2199.424	1.6	200.695°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:49	DLG	492717.04	5310720.75	Unknown	2199.471	1.5	202.686°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:42:51	DLG	492717.04	5310720.75	Unknown	2199.437	1.4	204.479°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:43:07	DLG	492716.30	5310718.22	Unknown	2199.226	1.3	204.496°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:43:21	DLG	492715.62	5310714.73	Unknown	2199.208	1.4	191.755°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:43:24	DLG	492715.62	5310714.73	Unknown	2199.206	1.3	175.728°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:43:35	DLG	492715.93	5310713.12	Unknown	2198.409	1.9	172.419°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:43:41	DLG	492715.93	5310713.12	Unknown	2198.409	1.8	161.263°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:43:56	DLG	492715.93	5310713.12	Unknown	2198.240	1.7	182.136°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:44:28	DLG	492715.93	5310713.12	Unknown	2197.053	2.7	198.406°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:44:53	DLG	492715.93	5310713.12	Unknown	2196.572	2.1	208.111°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:44:57	DLG	492715.93	5310713.12	Unknown	2196.688	2	191.091°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:01	DLG	492715.93	5310713.12	Unknown	2196.555	2.3	173.216°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:04	DLG	492715.93	5310713.12	Unknown	2196.494	2.7	158.441°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:06	DLG	492715.93	5310713.12	Unknown	2196.397	3	146.986°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:09	DLG	492715.93	5310713.12	Unknown	2196.450	3	133.771°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:13	DLG	492715.93	5310713.12	Unknown	2195.978	3.3	134.772°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:14	DLG	492715.93	5310713.12	Unknown	2195.978	3.5	133.253°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:15	DLG	492715.93	5310713.12	Unknown	2195.790	3.7	132.151°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:16	DLG	492715.93	5310713.12	Unknown	2195.506	3.9	134.059°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:17	DLG	492715.93	5310713.12	Unknown	2195.393	4.1	134.033°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:18	DLG	492715.93	5310713.12	Unknown	2195.087	4.3	133.853°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:20	DLG	492715.93	5310713.12	Unknown	2194.814	4.6	134.179°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:21	DLG	492715.93	5310713.12	Unknown	2194.727	4.9	133.340°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:22	DLG	492715.93	5310713.12	Unknown	2194.661	5.1	132.325°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:24	DLG	492715.93	5310713.12	Unknown	2194.661	4.9	130.893°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:25	DLG	492715.93	5310713.12	Unknown	2194.761	4.5	128.603°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:27	DLG	492715.93	5310713.12	Unknown	2194.607	4.7	132.048°	Site - Hulk,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	04:45:28	DLG	492715.93	5310713.12	Unknown	2194.501	4.8	132.703°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:30	DLG	492715.93	5310713.12	Unknown	2194.277	5.2	130.369°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:31	DLG	492715.93	5310713.12	Unknown	2193.897	5.3	130.431°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:33	DLG	492715.93	5310713.12	Unknown	2193.672	5.2	132.602°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:34	DLG	492715.93	5310713.12	Unknown	2193.654	5.3	131.169°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:36	DLG	492715.93	5310713.12	Unknown	2193.607	5.2	130.461°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:37	DLG	492715.93	5310713.12	Unknown	2193.514	5	133.730°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:39	DLG	492715.93	5310713.12	Unknown	2193.487	5.1	133.924°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:40	DLG	492715.93	5310713.12	Unknown	2193.334	5.2	133.942°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:41	DLG	492715.93	5310713.12	Unknown	2192.975	5.4	133.982°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:43	DLG	492715.93	5310713.12	Unknown	2192.808	5.7	131.977°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:44	DLG	492715.93	5310713.12	Unknown	2192.675	5.8	131.731°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:46	DLG	492715.93	5310713.12	Unknown	2192.521	5.9	134.628°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:47	DLG	492715.93	5310713.12	Unknown	2192.495	6	143.301°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:49	DLG	492715.93	5310713.12	Unknown	2192.495	6	145.803°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:50	DLG	492715.93	5310713.12	Unknown	2192.351	6	145.710°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:52	DLG	492715.93	5310713.12	Unknown	2192.164	6.2	147.091°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:53	DLG	492715.93	5310713.12	Unknown	2191.965	1.9	146.713°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:55	DLG	492715.93	5310713.12	Unknown	2191.760	6.7	146.004°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:56	DLG	492715.93	5310713.12	Unknown	2191.519	7	145.714°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:58	DLG	492715.93	5310713.12	Unknown	2191.141	7.1	145.380°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:45:59	DLG	492715.93	5310713.12	Unknown	2190.917	7.5	145.485°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:04	DLG	492715.93	5310713.12	Unknown	2190.405	8	146.109°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:05	DLG	492715.93	5310713.12	Unknown	2190.198	8.2	145.907°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:07	DLG	492715.93	5310713.12	Unknown	2190.065	8.2	146.143°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:08	DLG	492715.93	5310713.12	Unknown	2189.779	8.5	146.162°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:09	DLG	492715.93	5310713.12	Unknown	2189.552	8.9	145.960°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:11	DLG	492715.93	5310713.12	Unknown	2189.392	9.1	145.868°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:12	DLG	492715.93	5310713.12	Unknown	2189.213	9.4	146.149°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:14	DLG	492715.93	5310713.12	Unknown	2188.940	9.9	146.166°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:15	DLG	492715.93	5310713.12	Unknown	2188.596	10.3	147.919°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:17	DLG	492715.93	5310713.12	Unknown	2188.376	10.2	152.266°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:18	DLG	492715.93	5310713.12	Unknown	2188.176	10.4	154.064°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:19	DLG	492715.93	5310713.12	Unknown	2188.117	11.1	153.115°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:22	DLG	492715.93	5310713.12	Unknown	2187.844	11.3	152.909°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:24	DLG	492715.93	5310713.12	Unknown	2187.320	12	152.725°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:26	DLG	492715.93	5310713.12	Unknown	2187.100	12.4	152.480°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:27	DLG	492715.93	5310713.12	Unknown	2186.940	12.4	152.279°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:28	DLG	492715.93	5310713.12	Unknown	2186.748	12.6	152.165°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:29	DLG	492715.93	5310713.12	Unknown	2186.528	12.6	150.513°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:30	DLG	492715.93	5310713.12	Unknown	2186.388	12.7	149.345°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:32	DLG	492715.93	5310713.12	Unknown	2186.236	13.1	149.298°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:33	DLG	492715.93	5310713.12	Unknown	2185.996	13.3	152.415°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:34	DLG	492715.93	5310713.12	Unknown	2185.996	13.2	154.192°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:35	DLG	492701.88	5310701.99	Unknown	2185.845	13.5	154.452°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:36	DLG	492701.88	5310701.99	Unknown	2185.582	13.8	154.383°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:37	DLG	492701.88	5310701.99	Unknown	2185.339	14.1	152.820°	Site - Hulk,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	04:46:39	DLG	492701.88	5310701.99	Unknown	2185.079	14.3	151.628°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:46:41	DLG	492701.88	5310701.99	Unknown	2184.709	14.7	152.456°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:04	DLG	492701.88	5310701.99	Unknown	2182.397	16.3	122.988°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:06	DLG	492701.88	5310701.99	Unknown	2182.058	16.4	124.300°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:09	DLG	492701.88	5310701.99	Unknown	2181.326	17	124.576°	Site - Hulk,smokintg
EVT	00/07/30	04:47:11	DLG	492701.88	5310701.99	Unknown	2181.046	16.8	125.449°	Site - Hulk,again
EVT	00/07/30	04:47:19	DLG	492713.19	5310698.67	Unknown	2180.997	13.8	128.500°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:22	DLG	492713.19	5310698.67	Unknown	2180.531	13.9	140.380°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:27	DLG	492713.19	5310698.67	Unknown	2179.826	17.8	143.463°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:28	DLG	492713.19	5310698.67	Unknown	2179.629	14.9	144.009°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:30	DLG	492713.19	5310698.67	Unknown	2179.096	18.4	144.067°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:31	DLG	492713.19	5310698.67	Unknown	2178.824	18.6	143.778°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:36	DLG	492713.47	5310699.57	Unknown	2178.151	16.9	142.094°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:37	DLG	492713.47	5310699.57	Unknown	2177.912	16.9	143.849°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:42	DLG	492713.47	5310699.57	Unknown	2176.972	20.8	138.737°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:43	DLG	492713.47	5310699.57	Unknown	2176.719	19.4	140.227°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:44	DLG	492713.47	5310699.57	Unknown	2176.453	17.9	140.157°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:46	DLG	492713.47	5310699.57	Unknown	2176.220	10.5	138.725°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:47	DLG	492713.47	5310699.57	Unknown	2176.100	21.3	137.052°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:48	DLG	492713.47	5310699.57	Unknown	2176.020	10.7	139.025°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:49	DLG	492713.47	5310699.57	Unknown	2175.874	10.4	139.593°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:50	DLG	492713.47	5310699.57	Unknown	2175.761	10.8	134.096°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:52	DLG	492713.47	5310699.57	Unknown	2175.708	11.1	133.916°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:53	DLG	492713.47	5310699.57	Unknown	2175.575	11	134.748°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:54	DLG	492713.47	5310699.57	Unknown	2175.628	10.9	130.548°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:55	DLG	492713.47	5310699.57	Unknown	2175.584	10.8	127.116°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:56	DLG	492713.47	5310699.57	Unknown	2175.543	10.8	128.717°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:58	DLG	492713.47	5310699.57	Unknown	2175.543	11.2	130.185°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:47:59	DLG	492713.47	5310699.57	Unknown	2175.477	11.3	133.324°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:00	DLG	492713.47	5310699.57	Unknown	2175.470	21.9	138.330°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:01	DLG	492713.47	5310699.57	Unknown	2175.370	11.3	138.503°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:02	DLG	492713.47	5310699.57	Unknown	2175.406	18.8	138.829°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:03	DLG	492713.47	5310699.57	Unknown	2175.340	19.6	137.331°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:04	DLG	492713.47	5310699.57	Unknown	2175.253	19.4	133.352°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:05	DLG	492713.47	5310699.57	Unknown	2175.253	18.7	128.339°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:06	DLG	492713.47	5310699.57	Unknown	2175.253	21.9	123.853°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:07	DLG	492713.47	5310699.57	Unknown	2175.293	22.1	122.048°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:48:13	DLG	492713.47	5310699.57	Unknown	2175.053	23.2	137.587°	Site - Hulk,we are on top of a smoker
EVT	00/07/30	04:48:32	DLG	492713.47	5310699.57	Unknown	2174.453	24.8	152.164°	Site - Hulk,lets take temp measurements of it and see what's up
EVT	00/07/30	04:48:48	DLG	492711.45	5310702.08	Unknown	2173.129	25	255.651°	Site - Hulk,lets find a good position first
EVT	00/07/30	04:49:04	DLG	492709.55	5310704.77	Unknown	2172.994	26.3	277.706°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:50:43	DLG	492669.87	5310711.69	Unknown	2172.862	26.3	214.618°	Site - Hulk,Karen logged some temps over the plume over 29
EVT	00/07/30	04:50:56	DLG	492669.87	5310711.69	Unknown	2173.801	25.5	180.831°	Site - Hulk,we are approaching 21
EVT	00/07/30	04:50:57	DLG	492669.87	5310711.69	Unknown	2173.953	25.8	183.707°	Site - Hulk,nov

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	04:51:03	DLG	492669.87	5310711.69	Unknown	2173.829	25.9	190.126°	Site - Hulk,lets see what
EVT	00/07/30	04:51:06	DLG	492669.87	5310711.69	Unknown	2173.894	25.9	187.258°	Site - Hulk,what's up
EVT	00/07/30	04:51:11	DLG	492669.87	5310711.69	Unknown	2174.288	24.4	183.619°	Site - Hulk,Wassuup
EVT	00/07/30	04:53:01	DLG	492649.01	5310708.87	Unknown	2193.052	4.9	253.753°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:53:05	DLG	492649.01	5310708.87	Unknown	2193.192	4.5	245.808°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:53:16	DLG	492643.59	5310709.16	Unknown	2193.500	3.5	186.801°	Site - Hulk,around 21 now
EVT	00/07/30	04:53:28	DLG	492643.59	5310709.16	Unknown	2195.400	2.2	96.347°	Site - Hulk,Oh no! not my age!
EVT	00/07/30	04:53:38	DLG	492645.19	5310705.28	Unknown	2196.779	1.8	119.562°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:53:44	DLG	492645.19	5310705.28	Unknown	2196.292	3.4	117.589°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:53:57	DLG	492651.83	5310702.41	Unknown	2194.217	6	123.944°	Site - Hulk,we are approaching something big man
EVT	00/07/30	04:54:07	DLG	492651.83	5310702.41	Unknown	2192.701	7.2	123.342°	Site - Hulk,"Yeh, size does matter"
EVT	00/07/30	04:54:09	DLG	492651.83	5310702.41	Unknown	2192.595	7.2	121.710°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:54:11	DLG	492651.83	5310702.41	Unknown	2192.295	7.4	120.804°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:54:12	DLG	492651.83	5310702.41	Unknown	2192.156	7.2	121.306°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:54:14	DLG	492651.83	5310702.41	Unknown	2191.889	7.3	121.323°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:54:16	DLG	492654.14	5310701.15	Unknown	2191.470	7.8	121.712°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:54:23	DLG	492654.14	5310701.15	Unknown	2190.087	6.9	117.096°	Site - Hulk,good plumer
EVT	00/07/30	04:54:26	DLG	492654.14	5310701.15	Unknown	2189.643	5.5	121.263°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:54:34	DLG	492657.09	5310699.05	Unknown	2189.515	5.5	99.464°	Site - Hulk,at 21
EVT	00/07/30	04:56:06	DLG	492659.06	5310698.27	Unknown	2187.280	9.9	209.378°	Site - Hulk,another plume
EVT	00/07/30	04:56:20	DLG	492651.82	5310692.92	Unknown	2186.151	11.1	206.327°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:57:18	DLG	492631.62	5310684.87	Unknown	2186.141	6.7	231.704°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:58:19	DLG	492631.79	5310674.15	Unknown	2186.782	7.1	143.783°	Site - Hulk,VID_GRAB
EVT	00/07/30	04:58:22	DLG	492631.79	5310674.15	Unknown	2186.855	7.2	144.367°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:00:08	DLG	492633.87	5310673.12	Unknown	2186.845	7.9	236.508°	Site - Hulk,we are at 34 now
EVT	00/07/30	05:00:29	DLG	492632.33	5310673.80	Unknown	2185.010	9.1	174.922°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:00:33	DLG	492632.33	5310673.80	Unknown	2184.860	9.4	153.487°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:00:42	DLG	492634.29	5310671.99	Unknown	2185.678	8.8	149.723°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:00:51	DLG	492634.29	5310671.99	Unknown	2186.753	7.7	149.785°	Site - Hulk,its like war out there
EVT	00/07/30	05:00:53	DLG	492634.29	5310671.99	Unknown	2186.832	8.3	151.140°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:01:58	DLG	492640.76	5310671.01	Unknown	2188.099	9	202.337°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:02:01	DLG	492640.76	5310671.01	Unknown	2188.209	8.9	201.866°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:02:08	DLG	492640.76	5310671.01	Unknown	2188.661	8.1	202.197°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:03:02	DLG	492639.41	5310673.06	Unknown	2188.045	8.8	203.770°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:03:17	DLG	492639.41	5310673.06	Unknown	2188.160	8.6	181.489°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:04:34	DLG	492639.85	5310674.54	Unknown	2187.771	8.3	182.156°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:04:58	DLG	492639.49	5310670.55	Unknown	2188.508	7.2	182.392°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:05:01	DLG	492639.49	5310670.55	Unknown	2188.500	7.2	178.736°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:05:03	DLG	492639.49	5310670.55	Unknown	2188.434	7.3	180.155°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:05:05	DLG	492639.49	5310670.55	Unknown	2188.414	7.5	180.745°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:05:13	DLG	492639.49	5310670.55	Unknown	2188.441	7.1	179.730°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:05:18	DLG	492639.35	5310670.82	Unknown	2188.661	7	180.595°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:05:24	DLG	492639.35	5310670.82	Unknown	2188.314	7.3	179.742°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:06:09	DLG	492638.91	5310671.59	Unknown	2187.799	8.2	181.407°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:06:11	DLG	492638.91	5310671.59	Unknown	2187.813	8.6	180.830°	Site - Hulk,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:07:08	DLG	492641.43	5310670.17	Unknown	2187.744	10.3	229.940°	Site - Hulk,we are moving away from 34 now
EVT	00/07/30	05:07:41	DLG	492642.79	5310665.38	Unknown	2188.019	1.9	234.478°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:07:45	DLG	492642.79	5310665.38	Unknown	2187.998	1.8	231.961°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:07:48	DLG	492642.79	5310665.38	Unknown	2187.966	1.7	230.853°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:07:52	DLG	492642.79	5310665.38	Unknown	2188.033	2.1	227.151°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:07:53	DLG	492642.79	5310665.38	Unknown	2188.092	2	228.004°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:07:55	DLG	492641.19	5310664.27	Unknown	2188.139	2.6	230.150°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:02	DLG	492641.19	5310664.27	Unknown	2188.106	8.8	230.218°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:03	DLG	492641.19	5310664.27	Unknown	2188.139	8.8	230.785°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:04	DLG	492641.19	5310664.27	Unknown	2188.159	8.8	231.837°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:06	DLG	492641.19	5310664.27	Unknown	2188.116	8.7	234.556°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:21	DLG	492642.57	5310662.41	Unknown	2188.015	8.4	245.650°	Site - Hulk,Jason is like a tank going through war fiels
EVT	00/07/30	05:08:23	DLG	492642.57	5310662.41	Unknown	2187.975	8.3	244.633°	Site - Hulk,field
EVT	00/07/30	05:08:26	DLG	492642.57	5310662.41	Unknown	2187.935	8.3	243.635°	Site - Hulk,I mean
EVT	00/07/30	05:08:34	DLG	492642.99	5310661.25	Unknown	2187.904	8.3	267.914°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:36	DLG	492642.99	5310661.25	Unknown	2187.895	8.4	274.742°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:38	DLG	492642.99	5310661.25	Unknown	2187.862	9.7	281.721°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:41	DLG	492642.99	5310661.25	Unknown	2187.795	9.9	288.438°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:42	DLG	492642.99	5310661.25	Unknown	2187.643	9.8	291.817°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:47	DLG	492642.99	5310661.25	Unknown	2187.745	9.8	298.636°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:51	DLG	492642.99	5310661.25	Unknown	2187.771	6.9	301.612°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:53	DLG	492642.99	5310661.25	Unknown	2187.831	9.3	303.144°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:55	DLG	492642.74	5310658.52	Unknown	2187.804	9.3	306.457°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:56	DLG	492642.74	5310658.52	Unknown	2187.836	9.4	309.507°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:08:58	DLG	492642.74	5310658.52	Unknown	2187.844	9.6	311.699°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:01	DLG	492642.74	5310658.52	Unknown	2187.917	9.5	318.700°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:02	DLG	492642.74	5310658.52	Unknown	2187.931	9.7	322.892°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:04	DLG	492642.74	5310658.52	Unknown	2187.978	9.6	326.864°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:05	DLG	492642.74	5310658.52	Unknown	2187.949	9.8	334.110°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:07	DLG	492642.74	5310658.52	Unknown	2187.998	9.7	339.818°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:09	DLG	492642.74	5310658.52	Unknown	2187.984	10.3	339.879°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:10	DLG	492642.74	5310658.52	Unknown	2187.998	10.2	338.490°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:12	DLG	492642.74	5310658.52	Unknown	2188.052	10.2	348.548°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:15	DLG	492639.66	5310657.25	Unknown	2187.978	10.8	359.812°	Site - Hulk,VID_GRAB
EVT	00/07/30	05:09:21	DLG	492639.66	5310657.25	Unknown	2188.043	10.5	10.317°	Site - Hulk,we are at Grotto
EVT	00/07/30	05:09:23	DLG	492639.66	5310657.25	Unknown	2188.017	10.4	9.764°	Site - Hulk,now
EVT	00/07/30	05:09:26	DLG	492639.66	5310657.25	Unknown	2187.971	10.3	9.908°	Site - Hulk,as they say
EVT	00/07/30	05:09:44	DLG	492639.66	5310657.25	Unknown	2187.958	9.1	22.795°	Temp Probe,
EVT	00/07/30	05:09:56	DLG	492627.21	5310659.11	Unknown	2187.984	7.8	34.843°	Temp Probe measure,
EVT	00/07/30	05:10:01	DLG	492627.21	5310659.11	Unknown	2187.964	7.8	47.286°	Temp Probe
EVT	00/07/30	05:10:03	DLG	492627.21	5310659.11	Unknown	2187.991	7.8	51.785°	measure,VID_GRAB
EVT	00/07/30	05:10:06	DLG	492627.21	5310659.11	Unknown	2188.004	7.6	53.929°	Temp Probe
EVT	00/07/30	05:10:08	DLG	492627.21	5310659.11	Unknown	2187.945	7.1	54.999°	measure,VID_GRAB
										Temp Probe
										measure,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:10:12	DLG	492627.21	5310659.11	Unknown	2188.011	7	65.732°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:21	DLG	492633.19	5310662.32	Unknown	2187.911	6.2	72.473°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:24	DLG	492633.19	5310662.32	Unknown	2187.978	6	73.451°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:28	DLG	492633.19	5310662.32	Unknown	2187.945	6	72.188°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:30	DLG	492633.19	5310662.32	Unknown	2187.998	6	71.018°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:32	DLG	492633.19	5310662.32	Unknown	2187.917	5.9	74.373°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:34	DLG	492633.19	5310662.32	Unknown	2187.938	5.8	80.542°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:36	DLG	492633.62	5310664.83	Unknown	2187.938	5.7	87.699°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:38	DLG	492633.62	5310664.83	Unknown	2187.998	5.7	90.637°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:40	DLG	492633.62	5310664.83	Unknown	2188.011	5.6	90.301°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:42	DLG	492633.62	5310664.83	Unknown	2188.017	5.5	90.163°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:43	DLG	492633.62	5310664.83	Unknown	2188.052	5.6	89.963°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:44	DLG	492633.62	5310664.83	Unknown	2188.004	5.6	90.069°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:45	DLG	492633.62	5310664.83	Unknown	2188.004	5.7	90.110°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:46	DLG	492633.62	5310664.83	Unknown	2188.013	5.5	90.084°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:47	DLG	492633.62	5310664.83	Unknown	2188.037	5.1	91.487°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:48	DLG	492633.62	5310664.83	Unknown	2188.037	5	94.296°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:50	DLG	492633.62	5310664.83	Unknown	2188.037	5	97.413°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:51	DLG	492633.62	5310664.83	Unknown	2187.958	5	101.387°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:52	DLG	492633.62	5310664.83	Unknown	2187.978	5.1	104.108°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:53	DLG	492633.62	5310664.83	Unknown	2188.024	5.1	104.148°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:55	DLG	492632.89	5310668.45	Unknown	2188.077	5.5	108.273°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:56	DLG	492632.89	5310668.45	Unknown	2188.077	6	117.806°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:57	DLG	492632.89	5310668.45	Unknown	2188.052	6	124.944°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:58	DLG	492632.89	5310668.45	Unknown	2187.991	6	129.423°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:10:59	DLG	492632.89	5310668.45	Unknown	2188.071	6.4	127.970°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:01	DLG	492632.89	5310668.45	Unknown	2188.143	6.4	127.131°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:02	DLG	492632.89	5310668.45	Unknown	2188.131	6.4	127.413°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:03	DLG	492632.89	5310668.45	Unknown	2188.157	6.3	127.696°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:04	DLG	492632.89	5310668.45	Unknown	2188.157	6.3	131.208°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:05	DLG	492632.89	5310668.45	Unknown	2188.143	6.3	134.303°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:06	DLG	492632.89	5310668.45	Unknown	2188.126	6.4	137.025°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:06	DLG	492632.89	5310668.45	Unknown	2188.111	6.6	140.121°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:07	DLG	492632.89	5310668.45	Unknown	2188.111	6.7	140.294°	Temp Probe measure,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:11:08	DLG	492632.89	5310668.45	Unknown	2188.058	6.8	139.324°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:09	DLG	492632.89	5310668.45	Unknown	2188.091	6.7	139.233°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:10	DLG	492632.89	5310668.45	Unknown	2188.150	6.6	139.692°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:11	DLG	492632.89	5310668.45	Unknown	2188.150	6.6	139.843°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:12	DLG	492632.89	5310668.45	Unknown	2188.140	6.7	140.477°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:13	DLG	492632.89	5310668.45	Unknown	2188.084	6.6	144.737°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:14	DLG	492632.89	5310668.45	Unknown	2188.084	6.8	147.569°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:15	DLG	492634.37	5310671.37	Unknown	2188.058	7	147.676°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:16	DLG	492634.37	5310671.37	Unknown	2187.998	6.8	147.980°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:17	DLG	492634.37	5310671.37	Unknown	2187.938	6.9	153.800°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:19	DLG	492634.37	5310671.37	Unknown	2187.931	7.2	156.124°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:20	DLG	492634.37	5310671.37	Unknown	2187.904	6.9	155.901°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:21	DLG	492634.37	5310671.37	Unknown	2187.860	7	157.458°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:22	DLG	492634.37	5310671.37	Unknown	2187.864	7	157.719°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:23	DLG	492634.37	5310671.37	Unknown	2187.738	7	157.188°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:24	DLG	492634.37	5310671.37	Unknown	2187.738	7.3	157.230°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:24	DLG	492634.37	5310671.37	Unknown	2187.707	7.3	157.425°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:25	DLG	492634.37	5310671.37	Unknown	2187.707	7.8	157.314°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:25	DLG	492634.37	5310671.37	Unknown	2187.745	7.8	157.158°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:26	DLG	492634.37	5310671.37	Unknown	2187.745	7.9	157.068°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:27	DLG	492634.37	5310671.37	Unknown	2187.671	7.9	157.067°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:27	DLG	492634.37	5310671.37	Unknown	2187.671	7.8	157.109°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:28	DLG	492634.37	5310671.37	Unknown	2187.707	7.9	157.128°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:29	DLG	492634.37	5310671.37	Unknown	2187.707	7.9	157.105°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:29	DLG	492634.37	5310671.37	Unknown	2187.677	7.8	157.102°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:30	DLG	492634.37	5310671.37	Unknown	2187.677	7.8	157.101°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:30	DLG	492634.37	5310671.37	Unknown	2187.677	7.8	157.100°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:31	DLG	492634.37	5310671.37	Unknown	2187.658	7.8	157.098°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:31	DLG	492634.37	5310671.37	Unknown	2187.658	7.8	157.097°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:11:31	DLG	492634.37	5310671.37	Unknown	2187.674	7.8	157.096°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:12:00	DLG	492637.55	5310672.71	Unknown	2187.814	7.6	157.339°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:12:03	DLG	492637.55	5310672.71	Unknown	2187.887	7.7	158.342°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:12:13	DLG	492637.55	5310672.71	Unknown	2188.153	7.4	155.059°	Temp Probe measure,shrimp
EVT	00/07/30	05:12:17	DLG	492636.99	5310672.35	Unknown	2188.067	7.4	158.847°	Temp Probe measure,on the other screen

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:12:48	DLG	492637.37	5310672.55	Unknown	2187.503	7.2	157.084°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:12:50	DLG	492637.37	5310672.55	Unknown	2187.463	7.3	156.661°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:12:51	DLG	492637.37	5310672.55	Unknown	2187.416	7.3	156.526°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:13:42	DLG	492637.37	5310670.36	Unknown	2185.905	9.7	157.052°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:14:04	DLG	492637.88	5310670.31	Unknown	2185.835	4.4	158.963°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:14:19	DLG	492638.86	5310668.77	Unknown	2185.980	2.8	158.763°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:14:22	DLG	492638.86	5310668.77	Unknown	2185.993	6.5	160.842°	Temp Probe measure,smoke
EVT	00/07/30	05:14:27	DLG	492638.86	5310668.77	Unknown	2185.577	10	159.202°	Temp Probe measure,a lot of it
EVT	00/07/30	05:14:29	DLG	492638.86	5310668.77	Unknown	2185.701	10.1	155.879°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:14:30	DLG	492638.86	5310668.77	Unknown	2185.764	10	160.136°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:09	DLG	492638.37	5310669.38	Unknown	2186.149	4.6	217.806°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:11	DLG	492638.37	5310669.38	Unknown	2186.085	4.6	220.834°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:12	DLG	492638.37	5310669.38	Unknown	2186.156	4.5	220.016°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:16	DLG	492639.10	5310668.24	Unknown	2186.269	4.3	217.192°	Temp Probe measure,a lot of smoke
EVT	00/07/30	05:15:20	DLG	492639.10	5310668.24	Unknown	2186.449	4.2	217.072°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:22	DLG	492639.10	5310668.24	Unknown	2186.491	4.6	220.689°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:24	DLG	492639.10	5310668.24	Unknown	2186.431	4.6	219.937°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:28	DLG	492639.10	5310668.24	Unknown	2186.451	4.5	217.486°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:30	DLG	492639.10	5310668.24	Unknown	2186.519	3.8	220.534°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:32	DLG	492639.10	5310668.24	Unknown	2186.478	4	220.727°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:33	DLG	492639.10	5310668.24	Unknown	2186.444	4	220.612°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:38	DLG	492639.10	5310668.24	Unknown	2186.412	4.1	219.939°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:41	DLG	492639.10	5310668.24	Unknown	2186.358	6.6	218.874°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:15:43	DLG	492639.10	5310668.24	Unknown	2186.387	6.7	221.154°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:16:20	DLG	492641.60	5310665.89	Unknown	2186.203	4.3	248.507°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:18:03	DLG	492640.05	5310661.90	Unknown	2186.210	6.7	338.504°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:18:57	DLG	492636.53	5310661.97	Unknown	2186.149	9.8	30.966°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:00	DLG	492636.53	5310661.97	Unknown	2186.203	9.8	29.417°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:12	DLG	492636.53	5310661.97	Unknown	2186.043	9.9	38.062°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:14	DLG	492636.53	5310661.97	Unknown	2186.010	9.7	39.791°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:15	DLG	492635.25	5310662.35	Unknown	2186.103	9.6	43.193°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:16	DLG	492635.25	5310662.35	Unknown	2186.169	9.1	45.122°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:18	DLG	492635.25	5310662.35	Unknown	2186.187	8.9	50.698°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:21	DLG	492635.25	5310662.35	Unknown	2186.128	8.9	53.152°	Temp Probe measure,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:19:22	DLG	492635.25	5310662.35	Unknown	2186.154	8.6	58.200°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:24	DLG	492635.25	5310662.35	Unknown	2186.143	8.3	58.635°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:26	DLG	492635.25	5310662.35	Unknown	2186.121	8.2	59.157°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:31	DLG	492635.25	5310662.35	Unknown	2186.161	7.7	73.136°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:33	DLG	492635.25	5310662.35	Unknown	2186.134	7.7	74.646°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:36	DLG	492633.64	5310663.50	Unknown	2186.161	7.7	83.780°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:19:38	DLG	492633.64	5310663.50	Unknown	2186.283	7.6	83.158°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:20:17	DLG	492633.99	5310666.03	Unknown	2186.196	7.8	94.093°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:20:25	DLG	492633.99	5310666.03	Unknown	2186.181	6.9	95.298°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:20:27	DLG	492633.99	5310666.03	Unknown	2186.210	6.8	95.753°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:20:29	DLG	492633.99	5310666.03	Unknown	2186.276	6.8	103.591°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:20:38	DLG	492633.86	5310668.41	Unknown	2186.181	8.4	112.575°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:20:43	DLG	492633.86	5310668.41	Unknown	2186.169	9.2	114.380°	Temp Probe measure,nice good plume
EVT	00/07/30	05:20:49	DLG	492633.86	5310668.41	Unknown	2186.021	8.8	122.053°	Temp Probe measure,at the top of the image
EVT	00/07/30	05:20:54	DLG	492633.86	5310668.41	Unknown	2185.961	8.7	128.654°	Temp Probe measure,screen rather
EVT	00/07/30	05:21:25	DLG	492634.21	5310674.48	Unknown	2185.038	10	140.203°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:21:30	DLG	492634.21	5310674.48	Unknown	2184.558	10.6	140.497°	Temp Probe measure,Its smoking again
EVT	00/07/30	05:21:33	DLG	492634.21	5310674.48	Unknown	2184.579	10.3	139.937°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:21:34	DLG	492634.21	5310674.48	Unknown	2184.579	10.3	140.902°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:21:34	DLG	492635.82	5310669.73	Unknown	2184.579	10.3	141.319°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:21:35	DLG	492635.82	5310669.73	Unknown	2184.565	10.4	141.383°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:21:56	DLG	492636.78	5310670.31	Unknown	2184.346	10.5	140.639°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:22:02	DLG	492636.78	5310670.31	Unknown	2184.346	10.4	142.159°	Temp Probe measure,we are in the middle of smoke
EVT	00/07/30	05:22:03	DLG	492636.78	5310670.31	Unknown	2184.332	10.5	141.012°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:22:04	DLG	492636.78	5310670.31	Unknown	2184.325	10.5	141.076°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:22:09	DLG	492636.78	5310670.31	Unknown	2184.300	10.5	140.883°	Temp Probe measure,getting out of it
EVT	00/07/30	05:22:16	DLG	492637.22	5310670.20	Unknown	2184.308	10.3	143.346°	Temp Probe measure,taking measurements
EVT	00/07/30	05:22:21	DLG	492637.22	5310670.20	Unknown	2184.273	10.6	142.782°	Temp Probe measure,of the plume temp
EVT	00/07/30	05:22:29	DLG	492637.22	5310670.20	Unknown	2184.209	10.8	140.120°	Temp Probe measure,lets see what we've got
EVT	00/07/30	05:22:34	DLG	492637.20	5310669.08	Unknown	2184.042	11.3	143.203°	Temp Probe measure,later buddy
EVT	00/07/30	05:22:36	DLG	492637.20	5310669.08	Unknown	2184.015	11.3	143.308°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:22:38	DLG	492637.20	5310669.08	Unknown	2184.076	10.9	142.511°	Temp Probe measure,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:23:23	DLG	492636.52	5310670.26	Unknown	2184.151	8.7	172.587°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:23:24	DLG	492636.52	5310670.26	Unknown	2184.124	8.7	173.618°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:23:27	DLG	492636.52	5310670.26	Unknown	2184.077	9	174.509°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:23:28	DLG	492636.52	5310670.26	Unknown	2184.086	8.6	174.900°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:23:29	DLG	492636.52	5310670.26	Unknown	2184.118	9.1	174.919°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:23:30	DLG	492636.52	5310670.26	Unknown	2184.198	11.4	174.651°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:02	DLG	492638.44	5310671.08	Unknown	2184.381	12	187.543°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:03	DLG	492638.44	5310671.08	Unknown	2184.355	11.1	186.373°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:45	DLG	492636.68	5310670.98	Unknown	2184.318	2.8	209.209°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:46	DLG	492636.68	5310670.98	Unknown	2184.318	4.1	206.196°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:47	DLG	492636.68	5310670.98	Unknown	2184.371	2.9	203.577°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:48	DLG	492636.68	5310670.98	Unknown	2184.424	3	202.103°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:48	DLG	492636.68	5310670.98	Unknown	2184.424	3	201.970°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:50	DLG	492636.68	5310670.98	Unknown	2184.318	2.9	202.008°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:55	DLG	492637.82	5310667.19	Unknown	2184.298	3.2	195.796°	Temp Probe measure,intense smoke here
EVT	00/07/30	05:24:57	DLG	492637.82	5310667.19	Unknown	2184.304	3	192.671°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:24:58	DLG	492637.82	5310667.19	Unknown	2184.364	3.1	193.678°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:25:01	DLG	492637.82	5310667.19	Unknown	2184.351	2.9	193.472°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:25:02	DLG	492637.82	5310667.19	Unknown	2184.344	4.1	195.819°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:25:03	DLG	492637.82	5310667.19	Unknown	2184.331	4	198.277°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:25:04	DLG	492637.82	5310667.19	Unknown	2184.380	4.2	201.855°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:25:13	DLG	492637.82	5310667.19	Unknown	2184.640	4.5	216.727°	Temp Probe measure,VID_GRAB,there it is the smoker
EVT	00/07/30	05:25:51	DLG	492641.33	5310666.92	Unknown	2184.622	13.2	243.375°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:04	DLG	492641.64	5310666.36	Unknown	2184.576	9.8	277.327°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:05	DLG	492641.64	5310666.36	Unknown	2184.516	9.6	276.796°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:07	DLG	492641.64	5310666.36	Unknown	2184.516	9.4	275.076°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:08	DLG	492641.64	5310666.36	Unknown	2184.562	10	278.611°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:08	DLG	492641.64	5310666.36	Unknown	2184.562	10	282.081°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:09	DLG	492641.64	5310666.36	Unknown	2184.475	8.7	284.738°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:09	DLG	492641.64	5310666.36	Unknown	2184.475	8.7	289.329°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:10	DLG	492641.64	5310666.36	Unknown	2184.562	8.5	293.632°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:11	DLG	492641.64	5310666.36	Unknown	2184.562	8.5	293.786°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	05:26:11	DLG	492641.64	5310666.36	Unknown	2184.562	8.5	293.807°	Temp Probe measure,VID_GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:26:11	DLG	492641.64	5310666.36	Unknown	2184.549	8.4	293.587°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:12	DLG	492641.64	5310666.36	Unknown	2184.549	8.4	292.332°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:27	DLG	492641.60	5310664.05	Unknown	2184.322	5	291.472°	Temp Probe measure,
EVT	00/07/30	05:26:29	DLG	492641.60	5310664.05	Unknown	2184.436	5.2	291.885°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:30	DLG	492641.60	5310664.05	Unknown	2184.343	5.3	291.904°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:31	DLG	492641.60	5310664.05	Unknown	2184.343	5.3	291.770°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:31	DLG	492641.60	5310664.05	Unknown	2184.269	5.3	291.614°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:32	DLG	492641.60	5310664.05	Unknown	2184.269	5.3	291.525°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:32	DLG	492641.60	5310664.05	Unknown	2184.269	5.4	291.391°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:33	DLG	492641.60	5310664.05	Unknown	2184.289	5.4	291.345°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:33	DLG	492641.60	5310664.05	Unknown	2184.289	5.6	291.409°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:26:44	DLG	492639.71	5310663.44	Unknown	2184.176	6.8	297.596°	Temp Probe measure,this is smoking like a factory
EVT	00/07/30	05:26:47	DLG	492639.71	5310663.44	Unknown	2184.189	8.8	297.236°	Temp Probe measure,man!!!!!!
EVT	00/07/30	05:27:06	DLG	492641.57	5310663.17	Unknown	2184.216	8.7	293.618°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:07	DLG	492641.57	5310663.17	Unknown	2184.236	6.6	293.440°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:07	DLG	492641.57	5310663.17	Unknown	2184.236	6.6	293.396°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:07	DLG	492641.57	5310663.17	Unknown	2184.236	6.6	293.241°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:08	DLG	492641.57	5310663.17	Unknown	2184.223	6.6	293.174°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:08	DLG	492641.57	5310663.17	Unknown	2184.223	6.6	293.019°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:31	DLG	492640.78	5310662.82	Unknown	2184.289	5.1	327.073°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:33	DLG	492640.78	5310662.82	Unknown	2184.296	5.2	327.991°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:34	DLG	492640.78	5310662.82	Unknown	2184.249	5.2	331.613°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:35	DLG	492638.99	5310662.34	Unknown	2184.289	4.9	331.741°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:38	DLG	492638.99	5310662.34	Unknown	2184.255	4.9	336.148°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:46	DLG	492638.99	5310662.34	Unknown	2184.094	6.2	337.618°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:48	DLG	492638.99	5310662.34	Unknown	2184.196	8.8	337.414°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:50	DLG	492638.99	5310662.34	Unknown	2184.180	8.8	337.231°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:27:55	DLG	492639.72	5310661.05	Unknown	2184.242	8.8	337.043°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:28:35	DLG	492638.68	5310659.66	Unknown	2184.659	8.7	337.007°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:28:37	DLG	492638.68	5310659.66	Unknown	2185.099	8.3	336.649°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:28:39	DLG	492638.68	5310659.66	Unknown	2185.206	8.3	337.326°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:29:26	DLG	492638.98	5310658.59	Unknown	2189.322	9.7	351.510°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:33:13	DLG	492642.04	5310666.82	Unknown	2189.693	9.6	233.732°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:33:45	DLG	492643.53	5310666.41	Unknown	2189.728	8.6	204.981°	Temp Probe measure,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:33:50	DLG	492643.53	5310666.41	Unknown	2189.732	8.4	206.000°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:33:51	DLG	492643.53	5310666.41	Unknown	2189.762	8.1	205.578°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:33:52	DLG	492643.53	5310666.41	Unknown	2189.701	8.1	205.442°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:33:54	DLG	492643.53	5310666.41	Unknown	2189.728	8.1	203.438°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:34:47	DLG	492641.05	5310669.40	Unknown	2189.548	6.9	160.782°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:35:15	DLG	492638.50	5310671.01	Unknown	2189.577	6.4	153.448°	Temp Probe measure,maybe they already frame grabbed these plumes....I dont know...but just in case
EVT	00/07/30	05:35:17	DLG	492638.50	5310671.01	Unknown	2189.531	6.4	154.143°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:35:37	DLG	492638.00	5310671.79	Unknown	2189.985	5.9	153.820°	Temp Probe measure,Dont blame the Grabber!
EVT	00/07/30	05:37:00	DLG	492637.21	5310675.62	Unknown	2191.696	4.3	105.537°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:37:01	DLG	492637.21	5310675.62	Unknown	2191.649	4.3	105.247°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:37:02	DLG	492637.21	5310675.62	Unknown	2191.703	4.3	104.738°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:37:03	DLG	492637.21	5310675.62	Unknown	2191.690	4.2	104.647°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:37:04	DLG	492637.21	5310675.62	Unknown	2191.701	4.1	104.402°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:37:07	DLG	492637.21	5310675.62	Unknown	2191.770	3.9	101.976°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:38:32	DLG	492640.30	5310673.55	Unknown	2189.750	6.5	173.858°	Temp Probe measure,time to change tapes
EVT	00/07/30	05:39:47	DLG	492642.44	5310671.16	Unknown	2189.614	8.8	205.555°	Temp Probe measure,changed
EVT	00/07/30	05:41:33	DLG	492641.45	5310669.32	Unknown	2188.929	4.9	196.218°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:42:51	DLG	492637.58	5310671.18	Unknown	2189.302	1.8	192.491°	Temp Probe measure,Karen logged some diffuse temp on tim's computer
EVT	00/07/30	05:43:50	DLG	492640.09	5310669.35	Unknown	2189.455	1.8	192.553°	Temp Probe measure,Everything is flowing NE
EVT	00/07/30	05:44:38	DLG	492638.20	5310671.90	Unknown	2189.428	1.8	193.000°	Temp Probe measure,Jason is flexing his arm
EVT	00/07/30	05:44:50	DLG	492638.20	5310671.90	Unknown	2189.508	1.8	193.140°	Temp Probe measure,he is taking out the temp probe from the box
EVT	00/07/30	05:44:56	DLG	492639.15	5310670.03	Unknown	2189.542	1.9	192.902°	Temp Probe measure,or can or whatever
EVT	00/07/30	05:45:02	DLG	492639.15	5310670.03	Unknown	2189.521	1.8	193.039°	Temp Probe measure,lifting it up
EVT	00/07/30	05:45:07	DLG	492639.15	5310670.03	Unknown	2189.508	1.9	192.846°	Temp Probe measure,and putting it down
EVT	00/07/30	05:45:12	DLG	492639.15	5310670.03	Unknown	2189.460	1.9	193.380°	Temp Probe measure,for taking measurements
EVT	00/07/30	05:45:17	DLG	492639.86	5310668.44	Unknown	2189.486	1.9	193.190°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:45:18	DLG	492639.86	5310668.44	Unknown	2189.505	1.9	193.186°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:45:22	DLG	492639.86	5310668.44	Unknown	2189.519	1.9	193.241°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:45:35	DLG	492634.85	5310676.94	Unknown	2189.565	1.9	193.312°	Temp Probe measure,the probe is touching the bottom of the sea

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	05:45:42	DLG	492634.85	5310676.94	Unknown	2189.537	1.9	193.576°	Temp Probe measure,recording data
EVT	00/07/30	05:46:54	DLG	492638.74	5310668.15	Unknown	2189.650	1.9	192.961°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:47:59	DLG	492638.73	5310670.42	Unknown	2189.837	1.9	192.898°	Temp Probe measure,You know! uh...this Jason guy is pretty good.....looks like he is very famous
EVT	00/07/30	05:48:07	DLG	492638.73	5310670.42	Unknown	2189.864	1.9	193.400°	Temp Probe measure,everybody is talking about him
EVT	00/07/30	05:49:00	DLG	492639.55	5310669.46	Unknown	2189.908	1.8	192.514°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:49:12	DLG	492639.55	5310669.46	Unknown	2189.985	1.8	192.568°	Temp Probe measure,lifting it up a few cms
EVT	00/07/30	05:49:19	DLG	492639.72	5310670.28	Unknown	2190.003	1.9	192.567°	Temp Probe measure,for another take
EVT	00/07/30	05:53:18	DLG	492640.19	5310670.45	Unknown	2190.055	1.8	192.086°	Temp Probe measure,VID_GRAB
EVT	00/07/30	05:53:24	DLG	492640.19	5310670.45	Unknown	2190.040	1.9	192.002°	Temp Probe measure,lifting it up again
EVT	00/07/30	05:53:31	DLG	492640.19	5310670.45	Unknown	2190.025	1.9	191.188°	Temp Probe measure,a lil bit higher
EVT	00/07/30	06:03:18	DLG	492640.84	5310668.35	Unknown	2189.256	3	194.841°	Temp Probe measure,lifting it further up
EVT	00/07/30	06:03:29	DLG	492640.84	5310668.35	Unknown	2189.234	2.8	196.103°	Temp Probe measure,to about 45 cm
EVT	00/07/30	06:07:36	DLG	492641.24	5310667.82	Unknown	2188.699	3.1	196.038°	Temp Probe measure,lifting it up again
EVT	00/07/30	06:11:23	DLG	492641.14	5310667.97	Unknown	2188.824	9.1	195.129°	Temp Probe measure,see a lot of metal like particles in the BRW camera
EVT	00/07/30	06:11:32	DLG	492641.14	5310667.97	Unknown	2188.845	9.3	196.663°	Temp Probe measure,just moved out of it
EVT	00/07/30	06:13:44	DLG	492651.73	5310653.21	Unknown	2188.858	5.4	208.084°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:13:47	DLG	492651.73	5310653.21	Unknown	2188.845	5.4	219.591°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:14:08	DLG	492654.34	5310652.10	Unknown	2189.697	4.7	232.887°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:14:15	DLG	492654.34	5310652.10	Unknown	2189.636	4.7	230.843°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:14:49	DLG	492653.82	5310653.25	Unknown	2189.358	5	232.013°	Temp Probe measure,lowering the probe
EVT	00/07/30	06:15:27	DLG	492651.76	5310656.43	Unknown	2189.190	5.1	232.097°	Temp Probe measure,putting it back in the basket....the probe
EVT	00/07/30	06:16:08	DLG	492655.40	5310652.47	Unknown	2189.115	5.1	232.522°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:16:10	DLG	492655.40	5310652.47	Unknown	2189.140	5.1	232.649°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:16:23	DLG	492654.84	5310652.48	Unknown	2189.142	5.1	232.717°	Temp Probe measure,Bingo! put it in
EVT	00/07/30	06:17:56	DLG	492655.48	5310651.63	Unknown	2189.193	4.9	232.568°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:19:11	DLG	492652.97	5310654.75	Unknown	2190.150	5.8	135.002°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:19:13	DLG	492652.97	5310654.75	Unknown	2190.170	4.6	134.162°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:19:14	DLG	492653.35	5310654.91	Unknown	2190.170	5.8	131.741°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:19:16	DLG	492653.35	5310654.91	Unknown	2190.091	6.5	129.911°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:19:18	DLG	492653.35	5310654.91	Unknown	2190.097	6.5	128.500°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:19:21	DLG	492653.35	5310654.91	Unknown	2190.393	7	126.160°	Temp Probe measure,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	06:19:26	DLG	492653.35	5310654.91	Unknown	2190.462	6.3	124.871°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:19:30	DLG	492653.35	5310654.91	Unknown	2190.275	7.2	122.882°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:19:32	DLG	492653.35	5310654.91	Unknown	2190.275	7.2	122.612°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:19:34	DLG	492645.22	5310655.19	Unknown	2190.315	7.2	123.507°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:19:36	DLG	492645.22	5310655.19	Unknown	2190.229	6.5	122.995°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:19:38	DLG	492645.22	5310655.19	Unknown	2190.348	7.1	122.439°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:20:12	DLG	492649.50	5310656.79	Unknown	2189.259	7.1	122.534°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:20:16	DLG	492651.39	5310656.73	Unknown	2189.465	7.3	116.373°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:21:03	DLG	492650.73	5310658.92	Unknown	2190.354	8.1	94.587°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:21:06	DLG	492650.73	5310658.92	Unknown	2190.655	7.8	93.172°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:23:26	DLG	492645.03	5310678.90	Unknown	2192.195	4.3	93.429°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:24:56	DLG	492645.23	5310685.17	Unknown	2194.561	4	279.661°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:25:00	DLG	492645.23	5310685.17	Unknown	2194.700	3.7	271.737°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:25:49	DLG	492639.67	5310687.00	Unknown	2191.772	3.1	226.766°	Temp Probe measure,VID_GRAB,Base of west wall
EVT	00/07/30	06:26:08	DLG	492639.67	5310687.00	Unknown	2188.259	5.8	252.592°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:26:26	DLG	492634.33	5310688.39	Unknown	2185.290	8.4	271.124°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:27:49	DLG	492625.74	5310684.63	Unknown	2186.192	7.1	133.830°	Temp Probe measure,,
EVT	00/07/30	06:28:25	DLG	492638.85	5310673.72	Unknown	2187.960	8.4	136.315°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:28:57	DLG	492644.98	5310663.37	Unknown	2189.141	9.6	155.333°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:30:23	DLG	492651.95	5310650.91	Unknown	2192.908	1.6	109.744°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:30:26	DLG	492651.95	5310650.91	Unknown	2193.240	1.3	111.625°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:30:30	DLG	492651.95	5310650.91	Unknown	2193.766	0.8	115.502°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:30:44	DLG	492651.95	5310650.91	Unknown	2194.228	30	101.879°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:31:11	DLG	492656.87	5310651.75	Unknown	2194.504	0.8	142.139°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:31:14	DLG	492656.87	5310651.75	Unknown	2194.504	30	149.977°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:32:14	DLG	492653.21	5310650.08	Unknown	2195.632	3	68.706°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:32:19	DLG	492657.70	5310649.91	Unknown	2195.679	3	68.646°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:32:31	DLG	492657.70	5310649.91	Unknown	2195.672	3	68.588°	Temp Probe measure,reading data
EVT	00/07/30	06:32:35	DLG	492657.10	5310649.40	Unknown	2195.658	3	68.599°	Temp Probe measure,temp probe data
EVT	00/07/30	06:33:59	DLG	492657.58	5310649.58	Unknown	2195.666	3	68.059°	Temp Probe measure,we are stationed at a place
EVT	00/07/30	06:34:05	DLG	492657.58	5310649.58	Unknown	2195.679	3	68.105°	Temp Probe measure,planning on where to go next
EVT	00/07/30	06:34:43	DLG	492658.88	5310649.42	Unknown	2194.099	2.4	55.114°	Temp Probe measure,VID_GRAB

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	06:35:20	DLG	492659.24	5310650.69	Unknown	2195.568	30	50.105°	Temp Probe measure,"we were at 19 earlier, we have now moved away from that place"
EVT	00/07/30	06:35:37	DLG	492658.69	5310652.58	Unknown	2195.544	0.9	9.360°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:36:08	DLG	492659.91	5310652.38	Unknown	2194.399	2.2	358.409°	Temp Probe measure,SE corner of Grotto
EVT	00/07/30	06:36:15	DLG	492660.84	5310651.29	Unknown	2193.913	4.6	334.108°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:37:03	DLG	492661.95	5310649.52	Unknown	2192.209	5.7	318.826°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:37:06	DLG	492661.95	5310649.52	Unknown	2192.378	5.6	317.650°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:37:28	DLG	492659.89	5310647.56	Unknown	2192.220	4.5	334.260°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:37:35	DLG	492659.89	5310647.56	Unknown	2191.963	2.7	338.831°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:38:17	DLG	492649.90	5310642.34	Unknown	2189.693	7.2	346.109°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:38:24	DLG	492649.90	5310642.34	Unknown	2189.533	7.5	349.320°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:39:56	DLG	492638.98	5310645.86	Unknown	2187.548	10.9	46.982°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:40:05	DLG	492638.98	5310645.86	Unknown	2187.789	11.4	54.471°	Temp Probe measure,SW corner of Grotto
EVT	00/07/30	06:41:31	DLG	492634.43	5310658.11	Unknown	2189.625	6.2	78.841°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:41:34	DLG	492634.35	5310659.68	Unknown	2189.159	6.4	78.788°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:41:37	DLG	492634.35	5310659.68	Unknown	2189.073	6.6	80.208°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:41:48	DLG	492634.35	5310659.68	Unknown	2187.810	7.1	82.546°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:42:45	DLG	492634.48	5310662.99	Unknown	2186.506	7.8	82.374°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:43:36	DLG	492634.24	5310660.23	Unknown	2186.556	9.8	54.162°	Temp Probe measure,VID_GRAB
EVT	00/07/30	06:43:40	DLG	492634.24	5310660.23	Unknown	2186.662	9.9	54.413°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:43:58	DLG	492635.57	5310655.89	Unknown	2186.525	11.9	27.728°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:44:21	DLG	492635.00	5310654.70	Unknown	2186.472	11.3	82.368°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:45:08	DLG	492634.54	5310650.01	Unknown	2186.619	11.9	48.346°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	06:47:58	DLG	492640.05	5310643.22	Unknown	2186.553	11.9	49.544°	Temp Probe measure,Ok! Good bye from me.,
EVT	00/07/30	06:52:38	DLG	492639.48	5310643.84	Unknown	2186.458	12	49.160°	Temp Probe measure,VID_GRAB,
EVT	00/07/30	07:13:54	DLG	492638.97	5310645.23	Unknown	2192.579	6.1	47.757°	Site - Grotto,preparing to conduct temp probe measurements of south edifice,
EVT	00/07/30	07:18:47	DLG	492639.33	5310646.32	Unknown	2190.891	7.2	84.621°	Site - Grotto,VID_GRAB,south tower diffuse flow (for Maureen)
EVT	00/07/30	07:20:40	DLG	492645.26	5310648.05	Unknown	2191.428	2.5	76.501°	Site - Grotto,VID_GRAB,"more diffuse flow, southwestern face (with marker)"
EVT	00/07/30	07:22:15	DLG	492646.27	5310649.09	Unknown	2190.976	2.5	79.596°	Site - Grotto,VID_GRAB,diffuse flow with marker and smokers in background
EVT	00/07/30	07:23:22	DLG	492647.10	5310649.65	Unknown	2191.244	2.1	68.298°	Site - Grotto,VID_GRAB,in position for conducting temp probe measurements

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	07:30:16	DLG	492645.98	5310649.24	Unknown	2191.238	2.1	68.209°	Site - Grotto,VID_GRAB,start logging temperature (Kyo's probe)
EVT	00/07/30	07:31:15	DLG	492645.27	5310650.61	Unknown	2191.121	2.1	68.536°	Site - Grotto,probe positioned in a little valley on a horizontal surface of the south tower,
EVT	00/07/30	07:31:58	DLG	492645.94	5310649.97	Unknown	2191.103	2.2	68.713°	Site - Grotto,VID_GRAB,Alvinellids on south tower
EVT	00/07/30	07:32:17	DLG	492645.65	5310649.09	Unknown	2191.143	2.2	68.524°	Site - Grotto,VID_GRAB,another shot of the Alvinellids
EVT	00/07/30	07:32:47	DLG	492645.39	5310649.49	Unknown	2191.176	2.1	67.707°	Site - Grotto,stop to reposition,
EVT	00/07/30	07:33:17	DLG	492646.01	5310649.26	Unknown	2191.210	2.1	67.617°	Site - Grotto,VID_GRAB,"start sampling temp, lifted a bit off bottom"
EVT	00/07/30	07:34:27	DLG	492645.38	5310649.49	Unknown	2191.185	2.1	67.604°	Site - Grotto,VID_GRAB,wide angle of the Alvinellids on the south tower
EVT	00/07/30	07:35:24	DLG	492645.90	5310649.09	Unknown	2191.154	2.1	67.695°	Site - Grotto,reposition probe,
EVT	00/07/30	07:35:53	DLG	492645.59	5310649.56	Unknown	2191.117	2.1	68.309°	Site - Grotto,VID_GRAB,"probe repositioned, begin logging again"
EVT	00/07/30	07:38:45	DLG	492645.90	5310649.66	Unknown	2191.179	2.1	68.359°	Site - Grotto,VID_GRAB,repositioned
EVT	00/07/30	07:41:51	DLG	492645.04	5310649.42	Unknown	2191.204	2.1	67.974°	Site - Grotto,stop to reposition,
EVT	00/07/30	07:42:00	DLG	492645.79	5310649.79	Unknown	2191.164	2.1	67.901°	Site - Grotto,VID_GRAB,repositioned
EVT	00/07/30	07:45:17	DLG	492645.80	5310650.73	Unknown	2191.134	2.2	67.679°	Site - Grotto,stop logging temp,
EVT	00/07/30	07:49:37	DLG	492645.74	5310649.77	Unknown	2191.124	2.2	67.793°	Site - Grotto,tape change done at 07:41,
EVT	00/07/30	07:55:55	DLG	492645.62	5310650.06	Unknown	2191.202	2	67.616°	Site - Grotto,preparing for a visual survey of smokers on southern tower to count the number of plumes,
EVT	00/07/30	07:59:58	DLG	492644.31	5310650.41	Unknown	2190.716	2.6	51.720°	Site - Grotto,leaving position,
EVT	00/07/30	08:00:43	DLG	492645.17	5310649.72	Unknown	2189.574	3.4	54.484°	Site - Grotto,rising to top of the edifice to begin smoker count survey,
EVT	00/07/30	08:02:41	DLG	492643.68	5310650.49	Unknown	2188.887	3.9	66.168°	Site - Grotto,"at top, beginning visual survey",
EVT	00/07/30	08:03:24	DLG	492644.79	5310650.31	Unknown	2187.991	5	75.180°	Site - Grotto,VID_GRAB,start visual smoker count survey here
EVT	00/07/30	08:04:54	DLG	492642.85	5310650.06	Unknown	2187.471	5.6	46.429°	Site - Grotto,took 35mm picture of the top of the south tower,
EVT	00/07/30	08:11:32	DLG	492640.28	5310651.10	Unknown	2187.279	10	27.887°	Site - Grotto,"went back to the start, now restarting level 2187metres",
EVT	00/07/30	08:14:27	DLG	492637.27	5310653.68	Unknown	2187.286	11.5	44.146°	Site - Grotto,VID_GRAB,structure next to north tower
EVT	00/07/30	08:21:06	DLG	492647.25	5310661.40	Unknown	2186.955	11.4	176.751°	Site - Grotto,VID_GRAB,summit of north tower
EVT	00/07/30	08:23:11	DLG	492642.62	5310655.80	Unknown	2188.337	2.9	212.234°	Site - Grotto,VID_GRAB,close up of summit of north tower
EVT	00/07/30	08:30:26	DLG	492642.08	5310647.70	Unknown	2188.467	5.2	52.802°	Site - Grotto,moving down to next level,
EVT	00/07/30	08:30:57	DLG	492642.26	5310648.09	Unknown	2189.339	4.2	111.109°	Site - Grotto,start second level of visual smoker count survey (2189metres),

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
										(2189metres),
EVT	00/07/30	08:34:47	DLG	492653.52	5310650.54	Unknown	2189.352	7.1	326.429°	Site - Grotto,VID_GRAB,
EVT	00/07/30	08:38:38	DLG	492661.55	5310653.54	Unknown	2189.268	11.7	297.054°	Site - Grotto,rep
EVT	00/07/30	08:45:17	DLG	492661.53	5310656.49	Unknown	2189.317	12.4	288.596°	Medea, Site - Grotto,"Medea repositioned, resuming survey",
EVT	00/07/30	09:12:13	DLG	492659.53	5310658.56	Unknown	2188.615	13	289.161°	Site - Grotto,VID_GRAB,
EVT	00/07/30	09:18:58	DLG	492655.83	5310660.36	Unknown	2186.074	13.6	271.281°	Site - Grotto,waiting for Medea to reposition,
EVT	00/07/30	09:34:05	DLG	492639.62	5310650.87	Unknown	2190.056	6.4	53.136°	Site - Grotto,tape change,
EVT	00/07/30	09:41:02	DLG	492638.48	5310652.11	Unknown	2189.559	7.3	20.278°	Site - Grotto,in position ready to restart and finish final quarter on level 2189,
EVT	00/07/30	09:41:25	DLG	492637.48	5310652.73	Unknown	2189.510	6.9	18.869°	Site - Grotto,VID_GRAB,final quarter on level 2189
EVT	00/07/30	09:54:39	DLG	492640.35	5310652.79	Unknown	2190.886	5.3	47.337°	Site - Grotto,VID_GRAB,
EVT	00/07/30	09:59:35	DLG	492630.09	5310652.66	Unknown	2193.621	4.2	42.969°	Site - Grotto,preparing to do a frame grab mosaic of west face of south tower,
EVT	00/07/30	10:02:01	DLG	492635.42	5310656.31	Unknown	2189.733	8.1	74.056°	Site - Grotto,start frame grab mosaic,
EVT	00/07/30	10:02:08	DLG	492635.42	5310656.31	Unknown	2190.023	7.8	73.903°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:02:38	DLG	492635.14	5310655.93	Unknown	2189.946	7.9	74.867°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:03:17	DLG	492636.62	5310654.83	Unknown	2189.437	7.6	50.843°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:03:30	DLG	492636.62	5310654.83	Unknown	2189.413	7.1	49.528°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:03:40	DLG	492636.62	5310654.83	Unknown	2189.451	6.5	53.586°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:03:48	DLG	492636.62	5310654.83	Unknown	2189.417	3.7	68.392°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:04:21	DLG	492640.47	5310651.98	Unknown	2189.550	2.9	35.290°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:04:28	DLG	492640.47	5310651.98	Unknown	2189.531	7.3	32.565°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:04:48	DLG	492642.98	5310650.38	Unknown	2190.469	6.3	31.801°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:04:57	DLG	492643.12	5310650.12	Unknown	2190.583	6.3	31.929°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:08:52	DLG	492644.11	5310649.67	Unknown	2189.386	7.7	30.976°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:10:26	DLG	492644.00	5310650.63	Unknown	2189.552	7.5	29.198°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:10:44	DLG	492644.00	5310650.63	Unknown	2189.772	4	28.395°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:10:51	DLG	492644.00	5310650.63	Unknown	2190.172	2.9	27.363°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:10:57	DLG	492644.00	5310650.63	Unknown	2190.278	2.1	24.247°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:11:03	DLG	492644.00	5310650.63	Unknown	2190.598	1.9	15.505°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:11:22	DLG	492641.55	5310653.08	Unknown	2190.079	2.4	349.740°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:11:43	DLG	492641.93	5310653.71	Unknown	2189.653	2.3	347.831°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:11:56	DLG	492640.10	5310654.00	Unknown	2189.595	2.7	355.461°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:12:06	DLG	492640.10	5310654.00	Unknown	2189.535	2.4	0.593°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:12:20	DLG	492637.05	5310654.50	Unknown	2189.400	6.6	30.655°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:12:27	DLG	492637.05	5310654.50	Unknown	2189.342	6.5	38.894°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:12:34	DLG	492638.25	5310655.47	Unknown	2189.375	7.1	46.254°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:12:44	DLG	492638.25	5310655.47	Unknown	2189.320	7.5	38.163°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:12:53	DLG	492638.25	5310655.47	Unknown	2189.335	7.4	16.976°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:13:36	DLG	492637.98	5310656.39	Unknown	2189.737	6.6	51.297°	Site - Grotto,VID GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	10:15:11	DLG	492637.25	5310656.43	Unknown	2192.453	4	50.770°	Site - Grotto,VID_GRAB,diffuse flow under ledge in previous frame grab (this is not part of the frame grab mosaic)
EVT	00/07/30	10:16:30	DLG	492637.25	5310656.43	Unknown	2192.640	3.2	41.344°	Site - Grotto,VID_GRAB,diffuse flow under ledge showing mirror effect (just above and to the right of center)
EVT	00/07/30	10:20:36	DLG	492633.26	5310656.99	Unknown	2190.265	7.4	56.201°	Site - Grotto,resuming video frame grab survey at a third depth level,
EVT	00/07/30	10:20:40	DLG	492633.26	5310656.99	Unknown	2190.256	7.4	57.398°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:20:54	DLG	492633.26	5310656.99	Unknown	2190.323	7.1	57.992°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:21:02	DLG	492633.46	5310656.76	Unknown	2190.316	7	58.761°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:21:11	DLG	492633.46	5310656.76	Unknown	2190.339	7	89.229°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:21:28	DLG	492634.38	5310654.42	Unknown	2190.265	6.7	48.990°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:21:41	DLG	492634.87	5310655.07	Unknown	2190.225	6.5	49.238°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:21:58	DLG	492635.70	5310652.43	Unknown	2190.152	5.9	49.647°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:22:07	DLG	492635.70	5310652.43	Unknown	2190.152	6.1	49.355°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:22:21	DLG	492637.69	5310650.76	Unknown	2190.238	6.1	39.603°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:22:35	DLG	492638.36	5310649.77	Unknown	2190.236	5.3	28.025°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:22:43	DLG	492638.36	5310649.77	Unknown	2190.245	4.7	15.100°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:22:57	DLG	492641.36	5310648.13	Unknown	2190.252	6.7	7.895°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:23:47	DLG	492642.20	5310647.80	Unknown	2191.731	5.4	6.667°	Site - Grotto,going deeper for another level
EVT	00/07/30	10:25:11	DLG	492642.64	5310647.46	Unknown	2191.260	6	17.222°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:25:25	DLG	492642.47	5310648.66	Unknown	2191.310	5.8	1.141°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:25:34	DLG	492640.95	5310648.36	Unknown	2191.217	3.5	3.706°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:25:42	DLG	492640.95	5310648.36	Unknown	2191.257	4.8	16.822°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:25:56	DLG	492636.73	5310649.03	Unknown	2191.153	5.5	33.062°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:26:16	DLG	492634.38	5310651.07	Unknown	2191.539	6.3	63.149°	Site - Grotto,VID_GRAB
EVT	00/07/30	10:26:25	DLG	492634.38	5310651.07	Unknown	2191.560	6	63.471°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:26:32	DLG	492634.38	5310651.07	Unknown	2191.632	5.6	65.561°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:26:44	DLG	492633.74	5310653.42	Unknown	2191.543	6.1	64.448°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:26:56	DLG	492632.00	5310658.92	Unknown	2191.646	5.8	62.785°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:27:14	DLG	492632.00	5310658.92	Unknown	2193.411	4.3	65.719°	Site - Grotto,going deeper for another level,
EVT	00/07/30	10:29:11	DLG	492632.58	5310659.71	Unknown	2192.058	5.6	66.660°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:29:27	DLG	492633.16	5310659.57	Unknown	2192.090	5.6	66.570°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:29:48	DLG	492633.16	5310659.57	Unknown	2192.065	5.5	66.683°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:29:59	DLG	492628.29	5310655.58	Unknown	2192.098	5.3	79.217°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:30:15	DLG	492635.19	5310653.91	Unknown	2192.072	4.7	72.137°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:30:28	DLG	492635.19	5310653.91	Unknown	2192.145	5	62.145°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:30:47	DLG	492635.19	5310653.91	Unknown	2192.026	4.7	47.211°	Site - Grotto,VID_GRAB,
EVT	00/07/30	10:31:00	DLG	492635.94	5310650.51	Unknown	2191.946	4.7	48.204°	Site - Grotto,video frame grab complete,
EVT	00/07/30	10:50:41	DLG	492647.26	5310656.35	Unknown	2188.757	5.1	309.005°	Site - Grotto,VID_GRAB,black smoke
EVT	00/07/30	10:51:00	DLG	492647.67	5310655.26	Unknown	2187.904	5.5	307.805°	Site - Grotto,VID_GRAB,southern
EVT	00/07/30	10:57:30	DLG	492646.11	5310659.55	Unknown	2190.525	2.2	256.110°	Grotto,VID_GRAB,trying sampling

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	11:05:48	DLG	492643.46	5310663.14	Unknown	2190.411	2.3	245.395°	Site - Grotto,VID_GRAB,
EVT	00/07/30	11:14:26	DLG	492644.52	5310660.33	Unknown	2190.317	2.4	251.869°	Site - Grotto,VID_GRAB,sample to the round type samplebox
EVT	00/07/30	11:22:50	DLG	492647.18	5310656.25	Unknown	2188.858	5.7	265.484°	Site - Grotto,change sampling point,
EVT	00/07/30	11:26:43	DLG	492647.69	5310655.02	Unknown	2188.932	4.4	267.965°	Site - Grotto,put sulfide into sample box,
EVT	00/07/30	11:30:37	DLG	492645.79	5310654.44	Unknown	2188.843	3.6	280.043°	Site - Grotto,back Hulk to measure low temp diffuse,
EVT	00/07/30	11:41:57	DLG	492645.18	5310656.05	Unknown	2190.138	4.1	266.274°	Site - Grotto,trying rock sampling before back to Hulk,
EVT	00/07/30	11:45:03	DLG	492644.34	5310656.27	Unknown	2190.077	4.1	264.395°	Site - Grotto,VID_GRAB,try to take sulfide brock
EVT	00/07/30	11:55:34	DLG	492647.71	5310659.13	Unknown	2188.370	3.9	355.586°	Site - Grotto,chimney is falling down,
EVT	00/07/30	11:57:12	DLG	492649.98	5310663.27	Unknown	2181.816	2.9	7.926°	Site - Grotto,"start to move, back to Hulk, Head NE",
EVT	00/07/30	12:01:50	DLG	492689.71	5310716.58	Unknown	2181.794	16.6	27.979°	Site - Grotto,,
EVT	00/07/30	12:02:00	DLG	492689.71	5310716.58	Unknown	2181.781	16.9	27.552°	Site - Grotto,moving NE,
EVT	00/07/30	12:05:06	DLG	492698.69	5310729.02	Unknown	2181.803	16.3	24.267°	Site -,,
EVT	00/07/30	12:06:48	DLG	492704.90	5310742.95	Unknown	2181.826	16.4	27.231°	Site -Hulk,looking for Hulk,
EVT	00/07/30	12:12:43	DLG	492731.62	5310778.29	Unknown	2181.813	17.5	77.419°	Site -Hulk,going down,
EVT	00/07/30	12:13:07	DLG	492731.62	5310778.29	Unknown	2185.447	13.8	75.764°	Site -Hulk,approaching Hulk,
EVT	00/07/30	12:14:42	DLG	492721.85	5310779.29	Unknown	2197.500	2.2	97.449°	Site -Hulk,due south,
EVT	00/07/30	12:15:15	DLG	492718.55	5310778.06	Unknown	2197.695	2	162.983°	Site -Hulk,looking for the diffuse flow west of Hulk ,
EVT	00/07/30	12:22:22	DLG	492716.01	5310766.24	Unknown	2197.503	1.8	53.166°	Site -Hulk,VID_GRAB,diffuse flow near Hulk
EVT	00/07/30	12:24:51	DLG	492717.40	5310772.89	Unknown	2199.394	1.5	277.978°	Site -Hulk,VID_GRAB,big crack west of Hulk
EVT	00/07/30	12:31:49	DLG	492719.05	5310767.55	Unknown	2199.441	1.7	263.354°	Site -Hulk,VID_GRAB,temp measure over crack's diffuse flow
EVT	00/07/30	12:35:25	DLG	492720.79	5310767.43	Unknown	2199.402	1.3	262.438°	Site -Hulk,VID_GRAB,2nd measure on 1st of crack
EVT	00/07/30	12:39:21	DLG	492718.84	5310767.21	Unknown	2199.445	1	260.383°	Site -Hulk,VID_GRAB,1st temp measure 2nd site of crack
EVT	00/07/30	12:43:17	DLG	492719.01	5310769.57	Unknown	2199.454	30	261.097°	Site -Hulk,VID_GRAB,2nd measure 2nd site
EVT	00/07/30	12:53:47	DLG	492719.85	5310767.03	Unknown	2199.148	1.2	264.991°	Site -Hulk,moving ENE,
EVT	00/07/30	12:55:34	DLG	492728.36	5310774.32	Unknown	2198.012	1.4	165.938°	Site -Hulk,VID_GRAB,another crack near Hulk
EVT	00/07/30	13:02:30	DLG	492751.99	5310791.33	Unknown	2200.241	2.2	196.711°	Site -Hulk,VID_GRAB,diffuse area A
EVT	00/07/30	13:03:10	DLG	492751.99	5310791.33	Unknown	2200.108	1.6	197.645°	Site - Hulk,VID_GRAB,experiments
EVT	00/07/30	13:09:50	DLG	492742.11	5310788.56	Unknown	2199.847	1.6	15.709°	Site -Hulk,moving north along the crack,
EVT	00/07/30	13:15:17	DLG	492741.51	5310806.10	Unknown	2198.972	1.2	216.737°	Site -Hulk,VID_GRAB,structure north of Hulk
EVT	00/07/30	13:19:06	DLG	492733.70	5310797.94	Unknown	2198.361	1.5	172.889°	Site -Hulk,VID_GRAB,sub-sea A

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EVT	00/07/30	13:19:29	DLG	492733.79	5310798.30	Unknown	2198.283	0.7	172.423°	Site -Hulk,VID_GRAB,sub-sea B
EVT	00/07/30	13:20:50	DLG	492733.31	5310798.95	Unknown	2198.438	30	171.607°	Site -Hulk,a,
EVT	00/07/30	13:32:21	DLG	492732.30	5310800.14	Unknown	2198.579	1.9	169.495°	Site -Hulk,VID_GRAB,temp measure
EVT	00/07/30	13:35:01	DLG	492732.21	5310800.37	Unknown	2198.590	1.5	170.150°	moving back to S&M,,
EVT	00/07/30	13:58:15	DLG	492691.93	5310681.50	Unknown	2169.820	11	185.862°	recalibrating rotator,,
EVT	00/07/30	13:59:21	DLG	492684.04	5310661.29	Unknown	2169.912	28.9	185.750°	rotator's not in!!!,,
EVT	00/07/30	14:03:15	DLG	492673.08	5310614.58	Unknown	2170.029	30	185.348°	restart SM 2000,,
EVT	00/07/30	14:08:51	DLG	492658.77	5310566.49	Unknown	2194.650	10.6	216.037°	looking at S&M on sonar,,
EVT	00/07/30	14:15:17	DLG	492637.73	5310575.51	Unknown	2194.460	1.1	309.089°	just north of S&M,,
EVT	00/07/30	14:15:48	DLG	492637.42	5310575.59	Unknown	2194.507	1.1	337.186°	VID_GRAB,diffuse flow north of S&M,
EVT	00/07/30	14:17:41	DLG	492635.77	5310579.35	Unknown	2194.238	1.2	141.331°	Site-S&M,VID_GRAB,crack near S&M
EVT	00/07/30	14:20:12	DLG	492627.88	5310558.30	Unknown	2195.097	0.8	182.624°	Site-S&M,in search of diffuse flow,
EVT	00/07/30	14:22:47	DLG	492631.44	5310553.62	Unknown	2195.055	1.2	153.258°	Site- S&M,VID_GRAB,instruments
EVT	00/07/30	14:29:18	DLG	492631.44	5310553.62	Unknown	2196.166	30	194.132°	Site-S&M,VID_GRAB,temp measure no 1 near S&M
EVT	00/07/30	14:34:28	DLG	492631.44	5310553.62	Unknown	2196.228	30	193.679°	Site-S&M,VID_GRAB,measure no 2 near S&M
EVT	00/07/30	14:39:20	DLG	492631.44	5310553.62	Unknown	2195.964	30	193.718°	Site-S&M,VID_GRAB,new spot same site
EVT	00/07/30	14:43:28	DLG	492631.44	5310553.62	Unknown	2196.072	30	193.120°	Site-S&M,VID_GRAB,upper- 2nd spot
EVT	00/07/30	14:54:58	DLG	492631.44	5310553.62	Unknown	2196.128	1.7	191.757°	Site-S&M,markers to the left instruments to the right,,
EVT	00/07/30	15:00:57	DLG	492636.78	5310551.81	Unknown	2186.736	9.6	189.132°	Site-S&M,deciding to leave S&M and go to southern part of grotto,,
EVT	00/07/30	15:09:31	DLG	492640.75	5310590.78	Unknown	2192.387	3.4	55.264°	site-Grotto,we will be characterising the west face of grotto,,
EVT	00/07/30	15:21:13	DLG	492647.54	5310655.26	Unknown	2184.036	7.1	321.208°	site-Grotto,triangular tag,,
EVT	00/07/30	15:24:42	DLG	492635.94	5310641.94	Unknown	2189.651	6.5	50.244°	site-Grotto,facing grotto,,
EVT	00/07/30	15:28:49	DLG	492646.04	5310662.79	Unknown	2189.635	2.4	344.787°	site-Grotto,VID_GRAB,,
EVT	00/07/30	15:30:15	DLG	492648.83	5310662.73	Unknown	2191.106	30	329.498°	site-Grotto,VID_GRAB,are for diffuse flow measurement..NE corner of grotto,
EVT	00/07/30	15:30:25	DLG	492648.83	5310662.73	Unknown	2191.126	1	329.445°	site-Grotto,shimmering water...,
EVT	00/07/30	15:30:44	DLG	492647.83	5310663.04	Unknown	2191.173	1	329.080°	site-Grotto,, DIFFUSE,stopped for diffuse flow measurements
EVT	00/07/30	15:35:59	DLG	492647.05	5310663.31	Unknown	2191.435	0.9	329.708°	site-Grotto,VID_GRAB,,
EVT	00/07/30	15:36:19	DLG	492646.87	5310662.51	Unknown	2191.532	0.9	329.493°	site-Grotto,VID_GRAB,temp probe in diffuse flow,
EVT	00/07/30	15:36:31	DLG	492646.87	5310662.51	Unknown	2191.512	0.8	329.106°	site-Grotto,, DIFFUSE,temp probe in flow
EVT	00/07/30	15:38:06	DLG	492648.31	5310662.26	Unknown	2191.556	0.9	329.304°	site-Grotto,VID_GRAB,,
EVT	00/07/30	15:40:48	DLG	492644.98	5310662.69	Unknown	2191.607	1.1	329.363°	site-Grotto,, DIFFUSE,raising two inches above the bottom
EVT	00/07/30	15:42:32	DLG	492647.13	5310662.17	Unknown	2191.650	1.2	330.189°	site-Grotto,, DIFFUSE,raising probe four inches above bottom
EVT	00/07/30	15:43:34	DLG	492648.42	5310661.48	Unknown	2191.568	1	330.771°	site-Grotto,VID_GRAB,,

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EVT	00/07/30	15:43:46	DLG	492648.42	5310661.48	Unknown	2191.506	1.2	330.582°	site-Grotto,VID_GRAB,about four inches above,
EVT	00/07/30	15:46:35	DLG	492648.42	5310661.42	Unknown	2191.596	0.9	331.716°	site-Grotto,, DIFFUSE,raising probe to eight inches above bottom
EVT	00/07/30	15:51:20	DLG	492647.20	5310660.80	Unknown	2191.625	0.9	329.625°	site-Grotto,camera panned up,,
EVT	00/07/30	15:52:23	DLG	492648.06	5310660.89	Unknown	2191.686	0.9	329.083°	site-Grotto,, DIFFUSE,about 1 meter above floor
EVT	00/07/30	15:53:09	DLG	492647.84	5310661.26	Unknown	2191.644	0.9	329.272°	site-Grotto,VID_GRAB,1 m above floor,
EVT	00/07/30	15:53:55	DLG	492647.43	5310661.06	Unknown	2191.599	1	328.539°	site-Grotto,VID_GRAB,,
EVT	00/07/30	15:54:00	DLG	492647.43	5310661.06	Unknown	2191.586	1	328.921°	site-Grotto,VID_GRAB,,
EVT	00/07/30	15:54:11	DLG	492647.43	5310661.06	Unknown	2191.560	1.3	329.547°	site-Grotto,moved down to floor
EVT	00/07/30	15:54:17	DLG	492648.85	5310660.39	Unknown	2191.604	30	329.373°	site-Grotto,seeing eddies come up,,
EVT	00/07/30	15:54:37	DLG	492648.85	5310660.39	Unknown	2191.597	0.9	329.820°	site-Grotto,moved probe to the floor,,
EVT	00/07/30	15:54:54	DLG	492648.85	5310660.39	Unknown	2191.595	1.2	329.351°	site-Grotto,VID_GRAB,,
EVT	00/07/30	15:55:18	DLG	492648.50	5310659.04	Unknown	2191.546	1	329.717°	site-Grotto,seeing shimmering water move up,,
EVT	00/07/30	15:56:02	DLG	492648.97	5310660.52	Unknown	2191.579	0.9	330.725°	site-Grotto,VID_GRAB,seeing diffuse flow move up,
EVT	00/07/30	15:57:40	DLG	492649.54	5310660.33	Unknown	2191.568	1.1	332.233°	site-Grotto,VID_GRAB,,
EVT	00/07/30	15:57:49	DLG	492649.54	5310660.33	Unknown	2191.548	1.1	332.206°	site-Grotto,zoomed in to probe,,
EVT	00/07/30	15:58:03	DLG	492648.21	5310660.18	Unknown	2191.579	0.9	332.339°	site-Grotto,palm worms sticking out of floor,,
EVT	00/07/30	16:00:55	DLG	492645.92	5310659.50	Unknown	2191.607	0.9	331.401°	site-Grotto,VID_GRAB,finsshing diffuse flow measurements,
EVT	00/07/30	16:01:17	DLG	492647.96	5310660.63	Unknown	2191.004	1.2	355.417°	site-Grotto,putting probe back...finished diffuse flow measurements,,
EVT	00/07/30	16:03:00	DLG	492646.90	5310661.52	Unknown	2191.259	0.8	354.951°	site-Grotto,, DIFFUSE,
EVT	00/07/30	16:03:05	DLG	492646.90	5310661.52	Unknown	2191.292	30	354.936°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:03:47	DLG	492646.86	5310660.79	Unknown	2191.237	0.8	354.060°	site-Grotto,, DIFFUSE,to measure the flow against the wall.
EVT	00/07/30	16:10:12	DLG	492650.42	5310661.24	Unknown	2191.477	0.8	350.786°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:11:25	DLG	492651.32	5310659.30	Unknown	2191.517	30	350.806°	site-Grotto,raising probe above floor,,
EVT	00/07/30	16:12:00	DLG	492650.43	5310660.86	Unknown	2191.548	0.8	350.746°	site-Grotto,putting probe on floor,,
EVT	00/07/30	16:13:13	DLG	492651.07	5310660.22	Unknown	2191.568	0.9	350.392°	site-Grotto,, DIFFUSE,putting probe as low as possible
EVT	00/07/30	16:14:09	DLG	492650.30	5310660.22	Unknown	2191.628	0.8	349.959°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:14:36	DLG	492650.38	5310660.07	Unknown	2191.605	27	350.318°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:15:08	DLG	492649.96	5310659.70	Unknown	2191.683	0.8	350.308°	site-Grotto,VID_GRAB,diffuse flow on the floor,
EVT	00/07/30	16:18:05	DLG	492649.42	5310660.07	Unknown	2191.600	0.8	350.191°	site-Grotto,, DIFFUSE,temp probe on the floor of the wall...
EVT	00/07/30	16:18:30	DLG	492651.42	5310659.60	Unknown	2191.627	0.8	349.895°	site-Grotto,moving four inches...keeping probe against the face,,

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EVT	00/07/30	16:19:11	DLG	492650.55	5310658.87	Unknown	2191.618	0.8	350.144°	site-Grotto,VID_GRAB,four inches above floor...against the face,
EVT	00/07/30	16:19:29	DLG	492650.55	5310658.87	Unknown	2191.628	0.8	349.824°	site-Grotto,...keeping to the face of the wall..and moving up,,
EVT	00/07/30	16:20:58	DLG	492650.27	5310659.64	Unknown	2191.575	24	349.973°	site-Grotto,zoomed in to the probe,,
EVT	00/07/30	16:21:12	DLG	492650.27	5310659.64	Unknown	2191.609	30	350.150°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:22:59	DLG	492646.74	5310658.46	Unknown	2191.588	30	350.201°	site-Grotto,moving laterally to the left...to see if there's any difference to diffuse flow in areas with worms and areas of bare rock face,,
EVT	00/07/30	16:23:04	DLG	492646.74	5310658.46	Unknown	2191.595	30	350.208°	site-Grotto,,
EVT	00/07/30	16:23:12	DLG	492646.74	5310658.46	Unknown	2191.541	30	350.139°	site-Grotto,now in area wit worms,,
EVT	00/07/30	16:23:27	DLG	492650.92	5310659.36	Unknown	2191.553	30	350.117°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:23:44	DLG	492650.92	5310659.36	Unknown	2191.666	30	349.799°	site-Grotto,VID_GRAB,probe against wall with worms,
EVT	00/07/30	16:28:24	DLG	492644.36	5310657.52	Unknown	2191.630	28.1	348.557°	site-Grotto,moving probe to 8 inches above floor..keeping against the wall,,
EVT	00/07/30	16:29:37	DLG	492651.35	5310658.75	Unknown	2191.554	30	348.206°	site-Grotto,, DIFFUSE,probe against wall.
EVT	00/07/30	16:30:43	DLG	492650.53	5310658.59	Unknown	2191.525	30	348.160°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:31:22	DLG	492650.23	5310658.34	Unknown	2191.564	21.5	348.174°	site-Grotto,about 30 cm above base of wall,,
EVT	00/07/30	16:32:57	DLG	492646.70	5310657.34	Unknown	2191.461	30	347.755°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:33:13	DLG	492646.70	5310657.34	Unknown	2191.494	30	347.682°	site-Grotto,VID_GRAB,about 30 cm above floor of wall,
EVT	00/07/30	16:33:32	DLG	492648.64	5310657.98	Unknown	2191.514	30	347.538°	site-Grotto,raising probe another 10cm,,
EVT	00/07/30	16:37:00	DLG	492651.36	5310658.60	Unknown	2191.507	0.7	348.844°	site-Grotto,VID_GRAB,,
EVT	00/07/30	16:37:23	DLG	492650.36	5310658.00	Unknown	2191.523	0.7	348.903°	site-Grotto,VID_GRAB,about 35cm above floor of wall,
EVT	00/07/30	16:38:37	DLG	492649.66	5310658.65	Unknown	2191.563	0.7	348.635°	site-Grotto,shimmering water rising up the probe,,
EVT	00/07/30	16:41:42	DLG	492646.08	5310658.06	Unknown	2191.700	30	348.714°	site-Grotto,, DIFFUSE,rising four inches more(vertically)
EVT	00/07/30	16:45:12	DLG	492651.29	5310659.01	Unknown	2191.778	30	349.793°	temp probe ,,,
EVT	00/07/30	16:53:26	DLG	492650.25	5310658.13	Unknown	2191.502	0.8	331.355°	temp probe ,, DIFFUSE: moving two inches towards us off the wall,,
EVT	00/07/30	16:54:12	DLG	492650.79	5310658.00	Unknown	2191.511	30	331.195°	temp probe ,zooming in onto probe,,
EVT	00/07/30	16:58:27	DLG	492649.40	5310657.82	Unknown	2191.702	0.8	331.697°	temp probe ,, DIFFUSE,moving two inches again away from wall (towards us)
EVT	00/07/30	16:59:12	DLG	492641.11	5310657.41	Unknown	2191.702	30	332.153°	temp probe ,we're about four inches off the wall.....,
EVT	00/07/30	17:01:18	DLG	492641.97	5310657.35	Unknown	2191.741	0.8	333.356°	temp probe ,, DIFFUSE,moving two more inche off the wall.
EVT	00/07/30	17:06:26	DLG	492650.44	5310658.35	Unknown	2191.977	0.8	333.565°	temp probe ,putting temp probe back,,
EVT	00/07/30	17:06:47	DLG	492649.37	5310661.27	Unknown	2191.937	30	333.611°	Site-Grotto,,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	17:11:58	DLG	492653.08	5310657.48	Unknown	2191.300	0.9	320.779°	Site-Grotto gyro reset,,
EVT	00/07/30	17:12:17	DLG	492651.42	5310657.85	Unknown	2191.374	1.4	301.320°	Site-Grotto, gyro reset,,
EVT	00/07/30	17:12:20	DLG	492651.42	5310657.85	Unknown	2191.388	1.4	300.828°	Site-Grotto,,,
EVT	00/07/30	17:15:27	DLG	492626.55	5310653.80	Unknown	2191.057	1.4	301.538°	Site-Grotto, VID_GRAB,,
EVT	00/07/30	17:16:01	DLG	492651.99	5310657.65	Unknown	2191.049	1.7	286.513°	Site-Grotto, VID_GRAB, perspective on light smoker...as target for next smoker measurement,
EVT	00/07/30	17:16:18	DLG	492651.99	5310657.65	Unknown	2191.536	1.1	287.431°	Site-Grotto, VID_GRAB,,
EVT	00/07/30	17:16:30	DLG	492651.99	5310657.65	Unknown	2191.889	0.9	284.382°	Site-Grotto, VID_GRAB,,
EVT	00/07/30	17:20:33	DLG	492652.91	5310656.77	Unknown	2191.961	30	293.579°	Site-Grotto, picking up rock sulphide sample
EVT	00/07/30	17:26:50	DLG	492649.90	5310656.89	Unknown	2192.155	0.8	329.308°	Site-Grotto, whoops...rock broke....
EVT	00/07/30	17:27:24	DLG	492649.97	5310656.34	Unknown	2192.204	0.8	329.799°	Site-Grotto, putting rock on platform
EVT	00/07/30	17:37:31	DLG	492650.56	5310655.88	Unknown	2192.449	0.8	329.875°	Site-Grotto, trying to get a vertical plume of smoke
EVT	00/07/30	17:37:36	DLG	492650.04	5310656.53	Unknown	2192.383	0.8	329.816°	Site-Grotto,
EVT	00/07/30	17:41:31	DLG	492655.06	5310655.27	Unknown	2188.856	4.8	355.689°	Site-Grotto, pointed due north now...
EVT	00/07/30	17:41:43	DLG	492654.13	5310655.71	Unknown	2188.865	4.4	313.114°	Site-Grotto, going around to find another smoker
EVT	00/07/30	17:43:50	DLG	492653.82	5310656.46	Unknown	2189.953	2.3	54.814°	Site-Grotto, VID_GRAB
EVT	00/07/30	17:44:10	DLG	492656.10	5310658.80	Unknown	2189.208	2.9	52.096°	Site-Grotto, VID_GRAB
EVT	00/07/30	17:45:01	DLG	492655.35	5310657.61	Unknown	2184.292	8.2	329.877°	Site-Grotto, gyro reset
EVT	00/07/30	17:45:01	DLG	492655.35	5310657.61	Unknown	2184.292	8.2	330.160°	Site-Grotto,
EVT	00/07/30	17:45:01	DLG	492655.35	5310657.61	Unknown	2184.292	8.1	330.292°	Site-Grotto,
EVT	00/07/30	17:52:01	DLG	492642.35	5310664.77	Unknown	2189.046	7.1	216.521°	Site-Grotto, going into smoke....
EVT	00/07/30	17:53:46	DLG	492641.99	5310659.58	Unknown	2188.633	8.1	337.560°	Site-Grotto, VID_GRAB
EVT	00/07/30	17:53:57	DLG	492639.24	5310660.21	Unknown	2188.150	8.1	349.831°	Site-Grotto, at the north tower...
EVT	00/07/30	18:07:20	DLG	492638.40	5310671.45	Unknown	2185.349	4.5	218.860°	Site-Grotto, down
EVT	00/07/30	18:07:24	DLG	492638.40	5310671.45	Unknown	2185.324	4.1	214.586°	Site-Grotto,
EVT	00/07/30	18:07:54	DLG	492637.96	5310670.50	Unknown	2185.823	3.5	218.648°	Site-Grotto,
EVT	00/07/30	18:13:26	DLG	492631.47	5310668.55	Unknown	2185.931	8.9	72.908°	Site-Grotto, trying to find a smoker for measurements..
EVT	00/07/30	18:16:29	DLG	492637.12	5310672.07	Unknown	2184.417	12.4	198.435°	Site-Grotto, completely blacked out
EVT	00/07/30	18:18:09	DLG	492638.18	5310669.38	Unknown	2185.846	3.5	260.380°	Site-Grotto, VID_GRAB
EVT	00/07/30	18:18:20	DLG	492637.99	5310667.23	Unknown	2185.718	3.4	287.331°	Site-Grotto, VID_GRAB
EVT	00/07/30	18:18:46	DLG	492639.27	5310664.73	Unknown	2186.487	2.1	333.767°	Site-Grotto, VID_GRAB
EVT	00/07/30	18:19:09	DLG	492635.97	5310665.12	Unknown	2186.620	9.3	334.885°	Site-Grotto, instruments...
EVT	00/07/30	18:21:41	DLG	492638.75	5310674.01	Unknown	2187.936	8.2	191.601°	Site-Grotto, VID_GRAB
EVT	00/07/30	18:23:09	DLG	492637.95	5310670.80	Unknown	2185.685	3.6	260.967°	Site-Grotto, VID_GRAB
EVT	00/07/30	18:25:01	DLG	492634.07	5310676.51	Unknown	2186.708	1.8	241.380°	Site-Grotto, this looks good
EVT	00/07/30	18:27:12	DLG	492638.60	5310669.84	Unknown	2186.737	1.9	242.719°	Site-Grotto, picking up high temp probe
EVT	00/07/30	18:39:48	DLG	492639.23	5310669.91	Unknown	2187.660	2.8	245.354°	Site-Grotto, looks like the cord ripped off..
EVT	00/07/30	18:40:23	DLG	492638.77	5310670.35	Unknown	2187.092	3.3	251.181°	Site-Grotto, the connectors for the high temp probe have come off....

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	18:41:38	DLG	492636.10	5310673.46	Unknown	2187.705	1.8	251.127°	Site-Grotto,no...the connectors are still alright..
EVT	00/07/30	18:41:56	DLG	492633.36	5310674.80	Unknown	2187.701	1.9	250.723°	Site-Grotto,"ok,...we're still in business."
EVT	00/07/30	18:42:04	DLG	492633.36	5310674.80	Unknown	2187.738	1.8	250.654°	Site-Grotto,starting temperature measurements,
EVT	00/07/30	18:42:10	DLG	492633.36	5310674.80	Unknown	2187.756	1.8	251.009°	Site-Grotto,VID_GRAB,
EVT	00/07/30	18:42:25	DLG	492633.36	5310674.80	Unknown	2187.727	1.8	251.250°	Site-Grotto,VID_GRAB,getting temp measurements
EVT	00/07/30	18:43:49	DLG	492637.10	5310672.28	Unknown	2187.669	1.8	251.258°	Site-Grotto,probe into the orifice...
EVT	00/07/30	18:45:05	DLG	492634.99	5310673.16	Unknown	2187.559	1.8	251.995°	Site-Grotto,VID_GRAB,
EVT	00/07/30	18:45:29	DLG	492634.34	5310675.32	Unknown	2187.501	1.9	251.484°	Site-Grotto,VID_GRAB,logging temp
EVT	00/07/30	18:47:28	DLG	492633.52	5310671.09	Unknown	2187.310	1.8	251.015°	Site-Grotto,temp probe moving around a lot,
EVT	00/07/30	18:48:00	DLG	492640.07	5310670.11	Unknown	2187.218	1.8	250.851°	Site-Grotto,temp measured max 339 C,
EVT	00/07/30	18:48:33	DLG	492636.97	5310674.04	Unknown	2187.249	1.9	251.038°	Site-Grotto,positioning probe higher in plume,
EVT	00/07/30	18:48:49	DLG	492636.97	5310674.04	Unknown	2187.187	1.8	250.923°	Site-Grotto,VID_GRAB,repositioned and started logging
EVT	00/07/30	18:50:06	DLG	492635.84	5310672.15	Unknown	2187.129	1.9	251.569°	Site-Grotto,paused logging while probe gets repositioned,
EVT	00/07/30	18:52:35	DLG	492634.53	5310673.76	Unknown	2187.151	1.8	251.358°	Site-Grotto,VID_GRAB,taking temperatures
EVT	00/07/30	18:53:42	DLG	492638.05	5310672.59	Unknown	2187.146	1.8	252.232°	Site-Grotto,256 C at this position,
EVT	00/07/30	18:54:28	DLG	492635.04	5310673.85	Unknown	2187.091	1.7	251.763°	Site-Grotto,VID_GRAB,"repositioned higher, logging temps"
EVT	00/07/30	18:55:34	DLG	492636.39	5310673.15	Unknown	2187.092	1.8	251.740°	Site-Grotto,43 C highest at this level,
EVT	00/07/30	18:56:22	DLG	492636.39	5310673.15	Unknown	2187.070	1.7	251.374°	Site-Grotto,repositioning to 1m above orifice,
EVT	00/07/30	18:56:49	DLG	492636.91	5310673.94	Unknown	2187.108	1.7	251.689°	Site-Grotto,VID_GRAB,repositioned
EVT	00/07/30	18:57:50	DLG	492631.63	5310671.32	Unknown	2187.085	1.7	251.503°	Site-Grotto,24C highest at this level,
EVT	00/07/30	18:58:36	DLG	492635.02	5310673.30	Unknown	2187.056	1.7	251.386°	Site-Grotto,"finished measurements at this plume, moving on to another plume",
EVT	00/07/30	19:01:55	DLG	492639.27	5310669.68	Unknown	2186.890	1.7	251.641°	Site-Grotto,"correction, staying at this plume to measure flow rate with half metre stick",
EVT	00/07/30	19:06:06	DLG	492636.97	5310671.35	Unknown	2186.935	1.7	251.828°	Site-Grotto,tape change,
EVT	00/07/30	19:13:06	DLG	492634.28	5310674.40	Unknown	2186.897	1.7	251.436°	Site-Grotto,VID_GRAB,half metre stick in position for flow rate measurements
EVT	00/07/30	19:17:28	DLG	492636.88	5310673.71	Unknown	2187.243	1.8	251.302°	Site-Grotto,finished vent flow measurements,
EVT	00/07/30	19:19:10	DLG	492635.96	5310675.37	Unknown	2186.912	3.6	216.210°	Site-Grotto,moving off to another plume for temp and flow measurements,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	19:20:31	DLG	492638.77	5310671.20	Unknown	2186.924	2	229.235°	Site-Grotto,VID_GRAB,"just surveyed plume on the right, moving in to survey the plume on the left"
EVT	00/07/30	19:24:51	DLG	492642.71	5310671.85	Unknown	2187.168	11.2	204.037°	Site-Grotto,"correction, choosing to survey a weaker plume to provide more representation of the variety of plume types on the tower",
EVT	00/07/30	19:25:25	DLG	492643.10	5310668.69	Unknown	2187.470	10.4	258.383°	Site-Grotto,VID_GRAB,plumes being targeted
EVT	00/07/30	19:26:31	DLG	492640.36	5310668.58	Unknown	2188.908	7.9	283.936°	Site-Grotto,VID_GRAB,settled into position on the plumes in the bottom right of the previous frame grab
EVT	00/07/30	19:29:56	DLG	492640.51	5310668.70	Unknown	2188.994	0.8	275.383°	Site-Grotto,repositioned to survey the right side plume from previous frame grab,
EVT	00/07/30	19:31:26	DLG	492640.93	5310667.64	Unknown	2188.980	1.6	274.538°	Site-Grotto,VID_GRAB,half metre stick in position
EVT	00/07/30	19:31:48	DLG	492640.66	5310668.75	Unknown	2188.964	1.5	274.625°	Site-Grotto,VID_GRAB,start survey of vent flow measurements
EVT	00/07/30	19:34:02	DLG	492639.70	5310669.34	Unknown	2188.949	0.8	273.936°	Site-Grotto,stop vent flow measurements,
EVT	00/07/30	19:49:01	DLG	492640.78	5310668.04	Unknown	2189.255	0.9	274.356°	Site-Grotto,VID_GRAB,temp probe in position
EVT	00/07/30	19:50:50	DLG	492640.42	5310672.05	Unknown	2189.212	0.9	273.808°	Site-Grotto,highest temperature at first position 280 C,
EVT	00/07/30	19:51:09	DLG	492641.25	5310669.02	Unknown	2189.248	0.8	274.121°	Site-Grotto,repositioning 2 inches up,
EVT	00/07/30	19:53:18	DLG	492640.12	5310668.69	Unknown	2189.189	0.8	274.458°	Site-Grotto,highest temperature 350 C (in vent orifice),
EVT	00/07/30	19:53:30	DLG	492640.12	5310668.69	Unknown	2189.169	0.8	274.092°	Site-Grotto,now in new position 2 inches up from orifice,
EVT	00/07/30	19:54:38	DLG	492639.83	5310668.34	Unknown	2189.180	30	274.170°	Site-Grotto,VID_GRAB,"close up of orifice, temp probe in top of screen"
EVT	00/07/30	19:55:03	DLG	492639.67	5310668.64	Unknown	2189.189	0.9	273.985°	Site-Grotto,repositioning to half a metre up,
EVT	00/07/30	19:55:42	DLG	492637.55	5310668.46	Unknown	2189.172	0.8	273.671°	Site-Grotto,highest temp 2 inches up 45 C,
EVT	00/07/30	19:56:44	DLG	492640.84	5310669.03	Unknown	2189.214	0.8	273.989°	Site-Grotto,VID_GRAB,temp measurement half a metre up (highest temp in high 20's)
EVT	00/07/30	19:57:05	DLG	492641.32	5310668.39	Unknown	2189.210	0.8	273.924°	Site-Grotto,VID_GRAB,temp measurements 1 metre up
EVT	00/07/30	19:59:47	DLG	492639.63	5310668.22	Unknown	2189.204	30	274.423°	Site-Grotto,finished temp measurements,
EVT	00/07/30	20:08:19	DLG	492639.76	5310669.34	Unknown	2189.251	7.6	251.429°	Site-Grotto,VID_GRAB,

	Date	Time (GMT)		x (UTM)	y (UTM)	Nav Quality	Depth (m)	Altitude (m)	Gyro	Comments
EVT	00/07/30	20:11:51	DLG	492639.29	5310668.95	Unknown	2189.270	7.4	257.116°	Site-Grotto,VID_GRAB,"tiny sample collected (frame grab shows site where manipulator took sample, just above arm... chimney very hard and brittle so grab fell apart)"
EVT	00/07/30	20:13:51	DLG	492640.94	5310668.14	Unknown	2184.449	9.2	337.447°	lifting off bottom, preparing to ascend,,
EVT	00/07/30	20:14:58	DLG	492637.85	5310679.32	Unknown	2181.078	14.7	355.351°	beginning ascent,,
EVT	00/07/30	20:22:24	DLG	492657.75	5310679.05	Unknown	2086.186	30	43.373°	VID_GRAB,Maureen at the controls of the manipulator,
EVT	00/07/30	20:23:17	DLG	492667.82	5310677.09	Unknown	2072.125	30	44.773°	VID_GRAB,Maureen manipulating
EVT	00/07/30	20:24:01	DLG	492665.52	5310673.66	Unknown	2060.304	30	43.103°	VID_GRAB,Maureen still at the manip
EVT	00/07/30	20:27:58	DLG	492669.40	5310657.84	Unknown	1994.114	30	39.924°	VID_GRAB,
EVT	00/07/30	20:28:17	DLG	492670.87	5310654.87	Unknown	1987.434	30	41.052°	VID_GRAB,Maureen gets two in one grab!!!
EVT	00/07/30	20:34:17	DLG	492664.54	5310647.11	Unknown	1860.367	30	41.261°	medusa just past field of view on the pan and tilt (decks 2 and 4),
EVT	00/07/30	21:08:10	DLG	492520.62	5310422.87	Unknown	1048.922	30	1.033°	VID_GRAB,Matt rinsing the cable
EVT	00/07/30	21:08:26	DLG	492516.86	5310416.82	Unknown	1041.993	30	0.566°	VID_GRAB,Matt hard at work...
EVT	00/07/30	21:11:02	DLG	492509.39	5310388.30	Unknown	976.245	30	354.227°	VID_GRAB,action shot
EVT	00/07/30	21:11:13	DLG	492509.39	5310388.30	Unknown	971.942	30	356.216°	VID_GRAB,siesta time
EVT	00/07/30	21:11:51	DLG	492508.51	5310382.16	Unknown	956.352	30	357.266°	VID_GRAB,close up
EVT	00/07/30	21:18:24	DLG	492486.58	5310315.98	Unknown	796.017	30	357.813°	VID_GRAB,Tito taking over from Matt
EVT	00/07/30	21:58:08	DLG	492661.71	5309848.77	Unknown	5.049	30	320.210°	VID_GRAB,
EVT	00/07/30	21:58:30	DLG	492637.72	5309842.55	Unknown	2.807	30	324.755°	VID_GRAB,Jason at surface
EVT	00/07/30	22:01:15	DLG	492637.72	5309842.55	Unknown	4.550	30	352.821°	VID_GRAB,Medea on deck
EVT	00/07/30	22:03:19	DLG	492637.72	5309842.55	Unknown	6.112	30	357.346°	
EVT	00/07/30	22:03:39	DLG	492637.72	5309842.55	Unknown	6.082	30	359.681°	VID_GRAB,"Jason in water at surface, Medea on deck"
EVT	00/07/30	22:07:02	DLG	492637.72	5309842.55	Unknown	5.962	30	341.071°	VID_GRAB,basket at surface
EVT	00/07/30	22:08:08	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	Jason powered down,
EVT	00/07/30	22:08:16	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:08:22	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:08:25	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:08:28	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:08:30	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:08:36	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:08:39	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:08:41	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:08:46	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:09:35	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	VID_GRAB,
EVT	00/07/30	22:09:53	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	Jason on deck,
EVT	00/07/30	22:09:54	DLG	492637.72	5309842.55	Unknown	6.021	30	327.223°	

Miscellaneous notes to aid in data analysis

Measuring the Vehicle

The locations of all sensors are entered in the vehicle configuration page of the Cruise spreadsheet. The Jason vehicle origin is the forward bolt on the bottom of the tether strain relief. (See Figure 1). Measure the coordinates of each sensor relative to the Reference Points that have been established on the vehicle.



Figure 1 Jason Vehicle Origin (forward bolt)

Navigation Processing

Standard navigation processing is accomplished using two scripts. The first of these checks a daily navigation file for records of unusual length (either too short or too long), deletes out of order records, and runs a velocity filter to eliminate obvious fliers. It also truncates the navigation records, in preparation for other processing. The results of this processing are files ending in *nav.1*

The second checks the navigation file for gaps and runs a median filter to eliminate even more fliers. For TN114, gaps of ≥ 120 sec. are reported in the file ending in *.gap*. The parameters of the median filter are 'support' in units of records, and 'delta' in the units of the data. In other words, if support is 5, the filter will examine each record in the file, checking the five records on each side of the record being examined (making a total of 11 records being examined) and rejecting the record if it is more than the delta value away from the median value of the eleven.

The median filter is run on both the X and Y coordinate values of the navigation records. The best values of the parameters are somewhat subjective. For TN114, support was 3 and delta was set to 5.

Attitude Processing

Attitude processing is similar to the first stages of navigation processing, and performs the same character length and time checks, ensuring that the attitude data is clean. It also truncates the records, eliminating redundant information.

In the past, DSL processed attitude data with median and smoothing filters, but we found that many users (ourselves included) preferred raw data.

R/V Thompson Operations

CTD Calibration Data Sheets

CTD:

Seabird 911+

S/N 09P8254-0366

Pressure (primary):

Digiquartz (410K-105)

S/N 57657

Temperature (primary):

Seabird SBE-03

S/N 1316

Conductivity (primary):

Seabird SBE-04

S/N 0855

Oxygen (primary):

Seabird SBE-13

S/N 0229

Temperature (secondary):

Seabird SBE-03

S/N 1605

Conductivity (secondary):

Seabird SBE-04

S/N 1698

Transmissometer:

Sea Tech (25cm)

S/N 148D

Backscatter:

Sea Tech LSS

S/N 241



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PRESSURE TEST CERTIFICATE

Date: 07 Jun 99

Job # 21016R

Model # 9plus 6800m

S/N 09P8254-0366

Pressure test results:

Low pressure (psi)	<u>50</u>	<u>psi</u>
Time (minutes)	<u>15</u>	<u>min</u>

High pressure (psi)	<u>10000</u>	<u>psi</u>
Time (minutes)	<u>30</u>	<u>min</u>

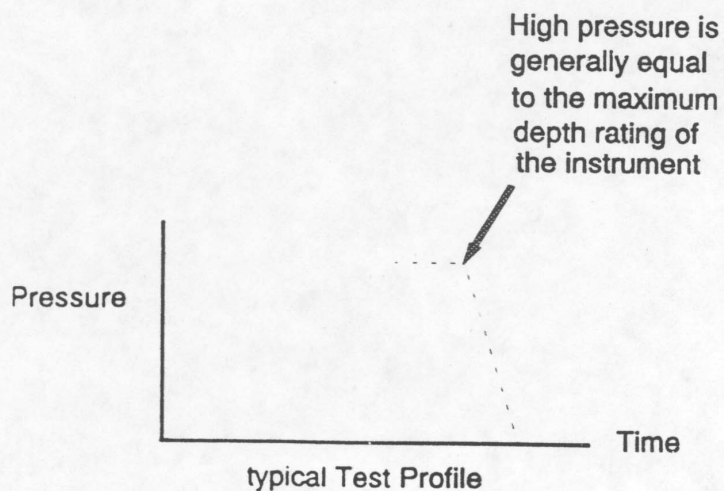
Pass ✓

Fail

Comments:

Replaced the 3-pin connector at JB1 and the 6-pin connector at JT6.

Tested by CPE



Pressure Calibration Check

27 May 1999

pressure sensor model: Digiquartz 410K-105
 sensor serial number: 57657
 installed in: CTD 09P8254-0366

This pressure calibration is a check of the 'test' sensor against a stable reference pressure sensor. The reference pressure sensor is itself checked several times per year against a NIST-traceable pressure standard maintained at Paroscientific, Inc.. The circumstances of this pressure check introduce no more than 1.5 psia total error in 10,000 psi (0.015 %) in addition to the error resident in the Paroscientific site standard. The check offers a very high level certification of the health and proper operation of the 'test' sensor.

Input Pressure* [psia]	Sensor Output [hz]	Sensor Temperature [deg C]	Pressure Factory Coef [psia]	Pressure Corrected [psia]	Error [psia]
14.700	33205.99	24.0	15.219	14.517	-0.183
2014.848	33865.65	24.1	2015.503	2014.773	-0.075
4014.612	34510.70	24.1	4015.334	4014.574	-0.038
6014.377	35142.12	24.2	6015.263	6014.475	0.098
8014.368	35760.56	24.4	8014.954	8014.137	-0.231
10013.943	36366.68	24.5	10014.400	10013.554	-0.389
8014.008	35760.63	24.6	8015.115	8014.297	0.289
6014.327	35142.25	24.6	6015.528	6014.740	0.413
4014.654	34510.81	24.7	4015.519	4014.759	0.105
2014.745	33865.75	24.8	2015.594	2014.863	0.118
14.626	33206.06	24.9	15.219	14.518	-0.108

Input pressure is generated with a Ruska model 5201 dead-weight tester, serial number 23330\380, and is determined by measurement with reference pressure sensor model Digiquartz 410K-000, serial number 73292.

Sensor Temperature: pressure sensor internal temperature.

Pressure Corrected: pressure computed with original factory coefficients and then corrected with a slope and offset to give the best linear agreement with the 'reference' Input pressure.

Error: Corrected pressure - Input pressure

A linear fit of this calibration data, between sensor pressure computed with factory coefficients and the Input pressure, yields correction coefficients:
 Corrected pressure = psi_slope * Factory pressure + psi_offset [psia]
 psi_slope = 0.99999 and psi_offset = -0.70 [psia]

These are converted to Slope and Offset in decibars for use in the SEASOFT programs by: Slope = psi_slope = 0.99999
 Offset = C * (psi_offset - 14.7 * (1 - psi_slope)) = -0.4836 [dbars]
 C = 0.689476 [dbar/psi]

Slope and Offset coefficients are entered into the pressure sensor calibration coefficient section of the <>.CON file using the program SEACON.

Digiquartz Coefficients:

C1 = -4.977328e+04
 C2 = 1.336710e-01
 C3 = 1.603380e-02
 D1 = 3.655500e-02
 D2 = 0.000000e+00
 T1 = 3.012387e+01
 T2 = -2.791900e-04
 T3 = 4.240330e-06
 T4 = 3.023140e-09

AD590 Pressure Temperature Coefficients:

AD590M = 0.01138
 AD590B = -8.23468

Calibration Correction:

Slope = 0.99999
 Offset = -0.4836

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA
Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com

SENSOR SERIAL NUMBER = 1316
CALIBRATION DATE: 17-Feb-00s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

$g = 4.87152069e-03$
 $h = 6.80796913e-04$
 $i = 2.76863175e-05$
 $j = 2.23410860e-06$
 $f_0 = 1000.000$

IPTS-68 COEFFICIENTS

$a = 3.68137148e-03$
 $b = 6.00870006e-04$
 $c = 1.51883318e-05$
 $d = 2.23558470e-06$
 $f_0 = 6480.426$

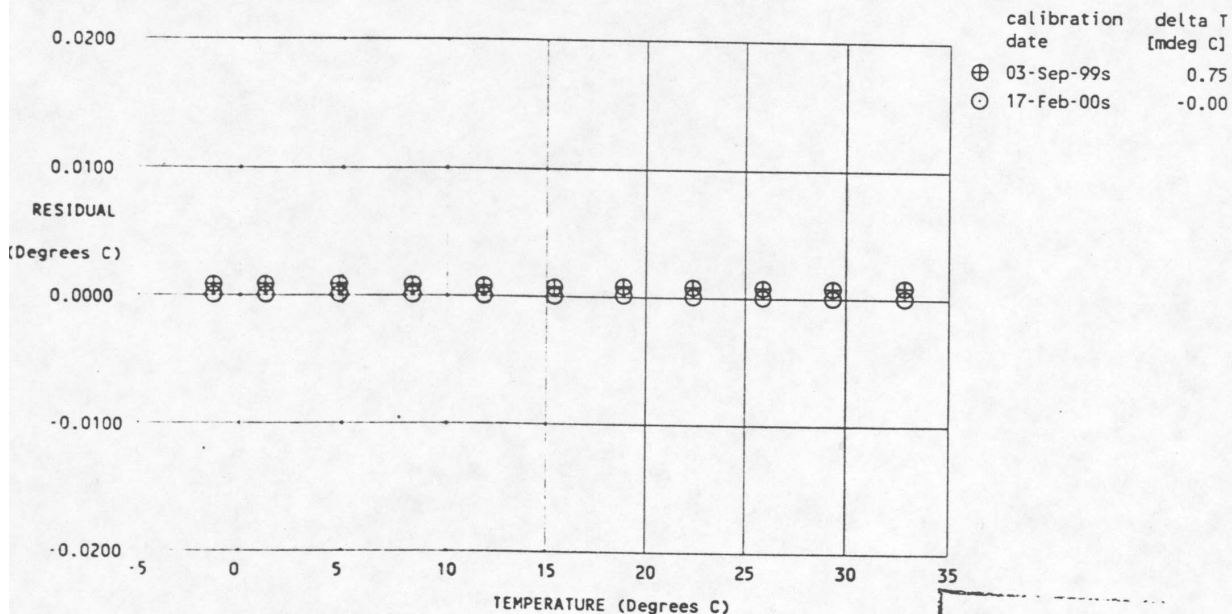
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.5117	6480.426	-1.5117	-0.00001
1.0498	6862.815	1.0498	0.00001
4.6230	7423.021	4.6230	0.00002
8.1297	8003.934	8.1297	0.00001
11.6333	8615.931	11.6332	-0.00003
15.1935	9270.990	15.1934	-0.00005
18.6571	9941.120	18.6571	0.00005
22.1579	10652.080	22.1580	0.00002
25.6855	11403.365	25.6855	-0.00001
29.1567	12177.506	29.1567	-0.00002
32.6313	12987.673	32.6313	0.00001

Temperature ITS-90 = $1/\{g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 = $1/\{a + b[\ln(f_0/f)] + c[\ln^2(f_0/f)] + d[\ln^3(f_0/f)]\} - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be $1.00024 * T_{90}$ (-2 to 35 °C).

Residual = instrument temperature - bath temperature



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Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com

SENSOR SERIAL NUMBER = 1605
CALIBRATION DATE: 17-Feb-00s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

$g = 4.84570701e-03$
 $h = 6.77711883e-04$
 $i = 2.55809484e-05$
 $j = 1.92760921e-06$
 $f_0 = 1000.000$

IPTS-68 COEFFICIENTS

$a = 3.68136931e-03$
 $b = 6.03698415e-04$
 $c = 1.50451213e-05$
 $d = 1.92904186e-06$
 $f_0 = 6213.103$

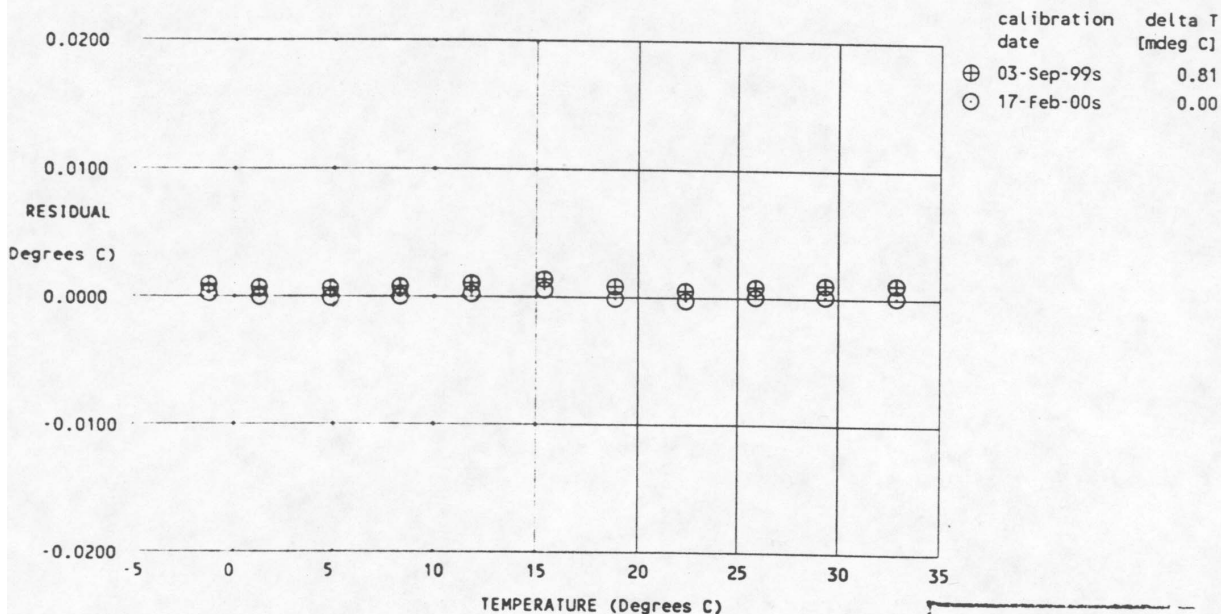
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.5117	6213.103	-1.5116	0.00015
1.0498	6577.900	1.0497	-0.00012
4.6230	7112.177	4.6228	-0.00020
8.1297	7666.014	8.1296	-0.00007
11.6333	8249.290	11.6334	0.00015
15.1935	8873.400	15.1940	0.00048
18.6571	9511.460	18.6569	-0.00018
22.1579	10188.314	22.1576	-0.00031
25.6855	10903.456	25.6855	0.00000
29.1567	11640.114	29.1567	0.00006
32.6313	12410.858	32.6313	0.00004

Temperature ITS-90 = $1 / \{g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 = $1 / \{a + b[\ln(f_0/f)] + c[\ln^2(f_0/f)] + d[\ln^3(f_0/f)]\} - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be $1.00024 * T_{90}$ (-2 to 35 °C).

Residual = instrument temperature - bath temperature



POST-CALIBRATION

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA
 Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com

SENSOR SERIAL NUMBER = 855
 CALIBRATION DATE: 17-Feb-00s

CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHJ COEFFICIENTS

g = -4.13530396e+00
 h = 4.52331898e-01
 i = -1.38230201e-04
 j = 2.64351480e-05
 CPcor = -9.57e-08 (nominal)
 CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 8.39366623e-06
 b = 4.51895902e-01
 c = -4.13388308e+00
 d = -8.23902845e-05
 m = 4.3
 CPcor = -9.57e-08 (nominal)

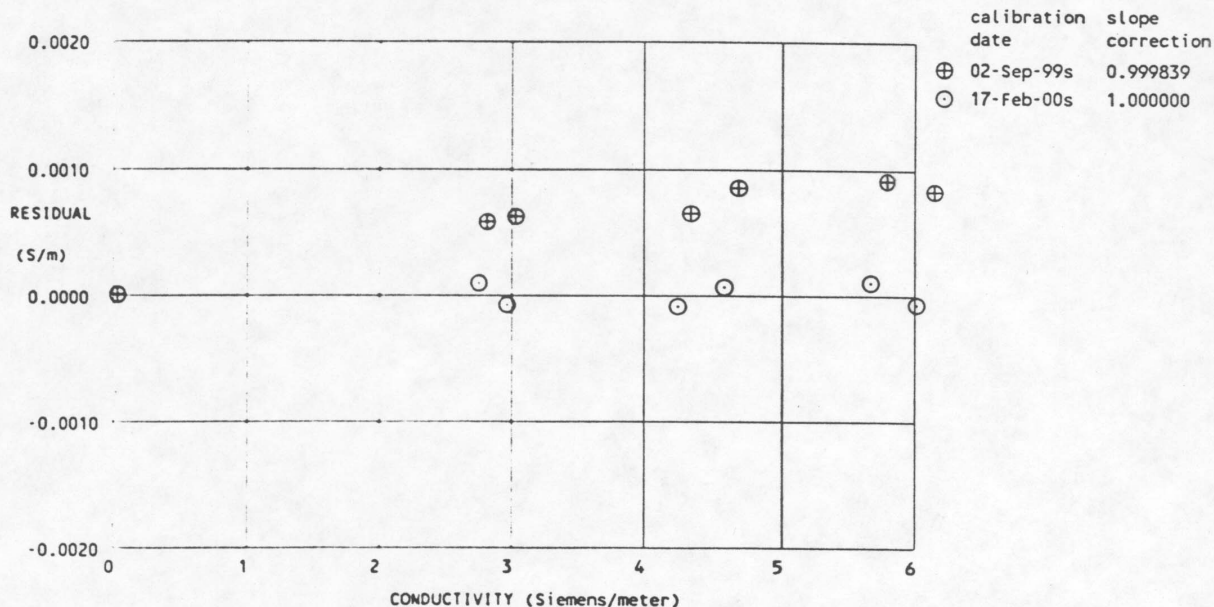
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	3.02419	-0.00000	-0.00000
-1.3865	34.1219	2.72170	8.31928	2.72179	0.00009
1.1537	34.1236	2.93540	8.59712	2.93532	-0.00008
15.2733	34.1203	4.22112	10.10789	4.22103	-0.00009
18.7112	34.1160	4.55574	10.46498	4.55580	0.00006
29.2549	34.1060	5.62472	11.53001	5.62482	0.00010
32.6945	34.0940	5.98382	11.86570	5.98375	-0.00007

Conductivity = $(g + hf^2 + if^3 + jf^4) / [10(1 + \delta t + \epsilon p)]$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

t = temperature [deg C]; p = pressure [decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients



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SENSOR SERIAL NUMBER = 1698
CALIBRATION DATE: 17-Feb-00s

CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHJ COEFFICIENTS

g = -4.34375436e+00
h = 5.22661903e-01
i = -6.75205798e-04
j = 5.79613942e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 3.40109526e-07
b = 5.20251785e-01
c = -4.33601855e+00
d = -8.91791572e-05
m = 5.6
CPcor = -9.57e-08 (nominal)

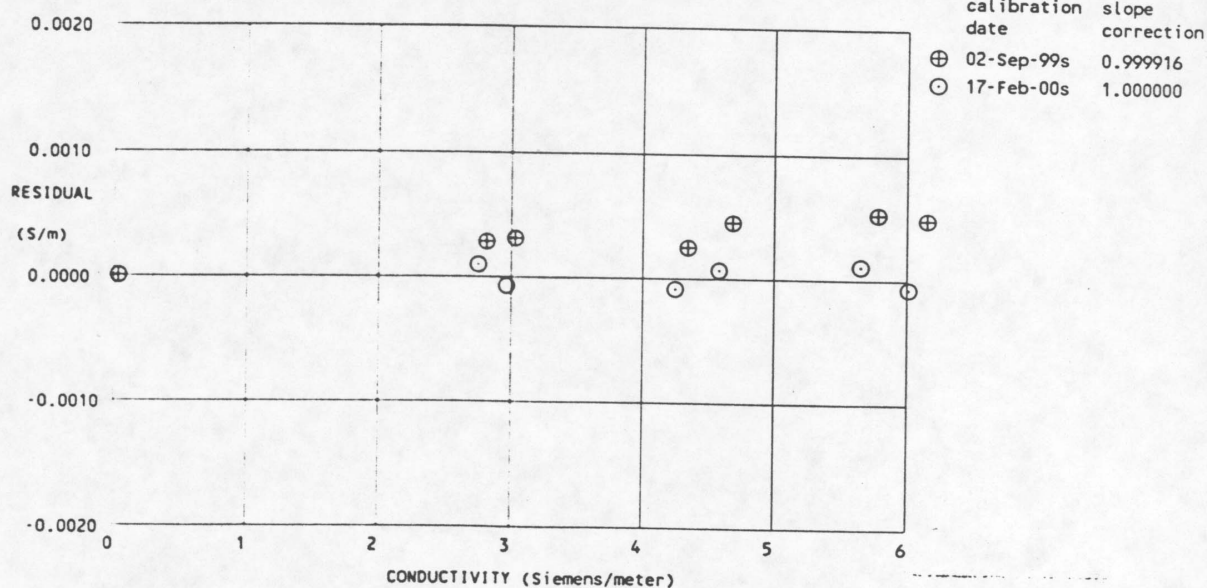
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.88690	-0.00000	-0.00000
-1.3865	34.1219	2.72170	7.78385	2.72179	0.00009
1.1537	34.1236	2.93540	8.04240	2.93532	-0.00008
15.2733	34.1203	4.22112	9.44886	4.22103	-0.00009
18.7112	34.1160	4.55574	9.78138	4.55580	0.00006
29.2549	34.1060	5.62472	10.77317	5.62482	0.00010
32.6945	34.0940	5.98382	11.08576	5.98374	-0.00008

Conductivity = $(g + hf^2 + if^3 + jf^4) / [10(1 + \delta + \epsilon p)]$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

t = temperature [deg C]; p = pressure [decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients





Sea-Bird Electronics, Inc. FAX: (425) 643-9954

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Website: <http://www.seabird.com>

Email: seabird@seabird.com

DISSOLVED OXYGEN SENSOR CALIBRATION: S/N 130229 24 February 2000

Sensor Type:

Beckman, Module S/N 9-08-14

Sensor Current

m = 2.4610 E-7

b = -8.6136 E-10

The use of these constants in a linear equation of the form

$$I = mV + b$$

will yield DO sensor membrane current as a function of sensor output voltage.

Sensor Compensation Temperature

k = 8.9378

c = -6.9085

The use of these constants in a linear equation of the form

$$T = kV + c$$

will yield membrane temperature as a function of temperature channel voltage with a maximum error of about 0.5 deg C. The correction to dissolved oxygen resulting from the use of this calibration should be sufficient to achieve the precision of which the sensor is capable.

SEASOFT Coefficients based on Oxfit Calibration Results

Soc	2.2289	
Boc	-0.0200	
tcor	-0.033	(nominal)
pcor	1.50e-4	(nominal)
tau	2.0	(for profiling applications only)
tau	0.0	(for moored applications only)
wt	0.67	(for Beckman type sensors)
wt	0.85	(for YSI type sensors)

barometer	=	1006.687	mB
Twater	=	6.209	deg C
Tcomp	=	5.917	deg C
Isat	=	0.556	uA
Iair	=	0.603	uA
Izero	=	0.008	uA

**CALIBRATION
AFTER
MODIFICATIONS**

25 cm TRANSMISSOMETER OPERATING INSTRUCTIONS

OPERATION & CALIBRATION:

First, connect a power source (9 to 30 VDC) to the instrument as shown on the connector wiring diagram, see figure 1. Observe polarity when connecting the power supply to the transmissometer, connect positive to pin 4 and negative to pin 1.

Use a voltmeter to measure the output voltage, pin 2 is the output and pin 3 is ground.

Block the light path to measure the zero output, it should be 0.00, +/- .01 VDC.

Clean the windows using kimwipes (or other non abrasive material), with a solution of dish washing liquid and water. When the windows are clean, the output voltage in air should be within +/- .02 VDC of the AIR CALIBRATION value listed below.

Perform the above procedure before each calibration and use of the instrument to measure transmission of water. The wavelength of the source is 660 nm, and at this wavelength the maximum value for light transmission in clean water with a 25 cm path length is 91.3% (4.565 VDC). Pure water absorption is 8.7% for a 25 cm path length at 660 nm.

MOUNTING INSTRUCTIONS:

A mounting bracket is provided with the transmissometer to simplify mounting the instrument on your system, see figure 2.

PRECAUTIONS:

DO NOT OPEN THE INSTRUMENT--this voids the warranty. If the instrument does not function properly, please consult the factory.

DO NOT LEAVE THE INSTRUMENT ON WHEN NOT IN USE. The LED is quite stable, but it will decrease in intensity, like most light sources, if left on for a long period of time.

DATA REDUCTION:

Air calibration may change with time. The LED light output can decrease approximately 1% in 1000 hours of operation. If the air calibration is measured frequently and the following correction is applied, then this change can be compensated for and will not affect the accuracy of the data.

$$V = (A/B) \cdot (X - Z) \quad \text{and} \quad \% \text{ Transmission} = 20 \cdot V$$

V=Corrected output voltage, (≤ 4.565 VDC since 91.3% is pure water).

A=Air calibration value listed below.

B=Air calibration (present value).

X=Data value (output voltage measured in water).

Z=Zero offset with light path blocked.

The AIR CALIBRATION for SN- 148D was 4.660 VDC on 2/23/96.

The ZERO OFFSET with the light path blocked is 0.000 VDC

LSS Serial No. 241

Date 11/18/94

Formazin Calibration: 1.25 ml/l of lab standard 4000 NTU Formazin

Transmission @ 650nm, 25cm Pathlength 58.68%, Attenuation 2.13/m

LSS Output, High Gain 4.29 VDC, Low Gain 1.28 VDC

Zero with LSS receiver blocked, High Gain -0.03 VDC, Low Gain 0.00 VDC

Gain Ratio 3.35

mAmps 15.8

Number of LEDs 2

Comments

University of Washington CTD Log									
Page 1 of 3									
Cruise Information			Station Information			Instrumentation			
Ship Name: R/V Thomas G. Thompson			Station Name: Station 1			CTD Type: SBE 911+			
Cruise Name: RIDGE			Station Number: 001			Configuration: CC, TT, P, Tr, Bs			
Cruise Number: TN114			Cast Number: 01			Water Depth (Meters): 2109.7			
Observer's Name: B. Martin			GMT Date: 28/07/00			Data Filename: 11400101.DAT			
GMT Start: 17:09:00			GMT Finish: 17:59:05			Audio Tape Number:			
Latitude Start: N 47 56.9661			Latitude Finish: N 47 56.9565			Audio Tape Start:			
Longitude Start: W 129 05.8744			Longitude Finish: W 129 05.8768			Audio Tape Finish:			
CTD Data									
Bottle Position	Serial No.	Depth (Meters)	Pressure (db)	Temp1 (Deg. C)	Temp2 (Deg. C)	Cond1 (ms/cm)	Cond2 (ms/cm)	Salinity1 (PSU)	Salinity2 (PSU)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Summary Data Table CTD Cast 1

Ship: R/V Thomas G. Thompson

Cruise number: TN114

Cruise name: RIDGE Program July, 2000

Jul 28 2000 17:10:42 Latitude = 47 56.96 N
Longitude = 129 05.87 W

Sea-Bird SBE 9 Raw Data File: FileName = G:\11400101.dat Temperature SN = 1316
Software Version Seasave Win32 v1.05 Conductivity SN = 0855
bad_flag = -9.990e-29

Sensor List: # sensor 0 = Frequency 0 temperature, primary, 1316
sensor 1 = Frequency 1 conductivity, primary, 0855, cpcor = -9.5700e-08
sensor 2 = Frequency 2 pressure, 57657, 27-May-1999
sensor 3 = Frequency 3 temperature, secondary, 1605
sensor 4 = Frequency 4 conductivity, secondary, 1698, cpcor = -9.5700e-08
sensor 5 = Extnl Volt 0 oxygen, current, 130229, 24-Feb-2000
sensor 6 = Extnl Volt 1 oxygen, temperature, 130229, 24-Feb-2000
sensor 7 = Extnl Volt 2 backscatterance, 239
sensor 8 = Extnl Volt 3 transmissometer, 148D, 23-Feb-96
sensor 9 = Extnl Volt 6 altimeter

Raw data converted Jul 29 2000 20:55:23, 4.233 using the input files 11400101.DAT 11400101.CON

Editing for wild data on Jul 29 2000 20:55:49, 4.233 using the file 11400101.CNV

```
# wildedit_pass1_nstd = 2.0
# wildedit_pass2_nstd = 20.0
# wildedit_npoint = 10
# wildedit_vars = t068 c0mS/cm pr t168 c1mS/cm oxML/L xmiss obs
# wildedit_excl_bad_scans = yes
# celltm_date = Jul 29 2000 20:56:05, 4.233
# celltm_in = 11400101.CNV
# celltm_alpha = 0.0300, 0.0300
# celltm_tau = 7.0000, 7.0000
# celltm_temp_sensor_use_for_cond = primary, secondary
# filter_date = Jul 29 2000 20:56:19, 4.233
# filter_in = 11400101.CNV
# filter_low_pass_tc_A = 0.030
# filter_low_pass_tc_B = 0.150
# filter_low_pass_A_vars = c0mS/cm c1mS/cm
# filter_low_pass_B_vars = pr
# loopedit_date = Jul 29 2000 20:56:47, 4.233
# loopedit_in = 11400101.CNV
# loopedit_minVelocity = 0.000
# loopedit_excl_bad_scans = yes
# binavg_date = Jul 29 2000 20:57:07, 4.233
# binavg_in = 11400101.CNV      # binavg_binsize = 1.00
# binavg_bintype = Pressure Bins      # binavg_excl_bad_scans = no
# binavg_downcast_only = no
# binavg_skipover = 0
# binavg_surface_bin = no, min = 0.000, max = 0.000, value = 0.000
# derive_date = Jul 29 2000 20:57:22, 4.233
# derive_in = 11400101.CNV 11400101.CON
```

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss-ometer	Backs-catterance	oxygen
salt water		primary	primary	PSS-78	primary IPTS-68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m ³]	[kg/m ³]			[ml/l]
1.983	2	15.9287	40.810352	32.3158	15.9284	23.7007	23.7007	86.53	0.81	5.84483
2.975	3	15.9275	40.809933	32.316	15.927	23.7012	23.7011	86.51	0.7	5.83201
3.966	4	15.9249	40.807911	32.3159	15.9243	23.7018	23.7016	86.48	0.67	5.81182
4.958	5	15.9249	40.808262	32.3159	15.9241	23.7017	23.7016	86.5	0.64	5.83744

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
5.95	6	15.9219	40.805763	32.3158	15.9209	23.7024	23.7022	86.46	0.62	5.81308
6.941	7	15.9172	40.80164	32.3155	15.9161	23.7033	23.703	86.4	0.62	5.81884
7.933	8	15.9083	40.793564	32.3153	15.9071	23.7051	23.7048	86.46	0.61	5.83551
8.924	9	15.9099	40.795479	32.3153	15.9085	23.7048	23.7045	86.42	0.59	5.81018
9.916	10	15.9026	40.789101	32.3153	15.9011	23.7064	23.7061	86.42	0.59	5.82383
10.907	11	15.909	40.795475	32.3153	15.9073	23.7051	23.7047	86.42	0.58	5.82357
11.899	12	15.9251	40.811592	32.316	15.9233	23.7021	23.7017	86.41	0.58	5.82318
12.891	13	15.9163	40.802963	32.3152	15.9143	23.7035	23.703	86.43	0.57	5.81858
13.882	14	15.9166	40.803963	32.3155	15.9145	23.7036	23.7031	86.46	0.56	5.81143
14.874	15	15.9085	40.797031	32.3156	15.9062	23.7056	23.7051	86.51	0.57	5.83128
15.865	16	15.8201	40.699516	32.3011	15.8177	23.7141	23.7136	86.46	0.56	5.81946
16.857	17	14.9694	39.906361	32.2909	14.9669	23.8921	23.8915	86.48	0.56	5.97875
17.848	18	14.5644	39.664783	32.408	14.5618	24.0685	24.0679	85.83	0.55	6.06748
18.84	19	14.5288	39.634392	32.4096	14.5261	24.0772	24.0766	85.16	0.55	6.27744
19.831	20	14.5541	39.650635	32.4029	14.5512	24.0668	24.0662	85.04	0.55	6.38771
20.823	21	14.4288	39.565876	32.4299	14.4258	24.114	24.1134	85.01	0.55	6.45599
21.814	22	14.0788	39.305298	32.4846	14.0757	24.229	24.2283	84.68	0.54	6.47917
22.806	23	14.0349	39.267338	32.4863	14.0316	24.2394	24.2387	84.09	0.54	6.47003
23.797	24	13.6167	38.944458	32.541	13.6134	24.367	24.3663	83.87	0.54	6.6358
24.789	25	13.5881	38.930214	32.5517	13.5846	24.3811	24.3804	84.1	0.54	6.67661
25.78	26	13.5465	38.903984	32.5623	13.5429	24.3976	24.3969	84.27	0.53	6.73583
26.772	27	13.3899	38.76791	32.5683	13.3862	24.4338	24.433	84.64	0.52	6.76535
27.763	28	13.1749	38.583126	32.5786	13.1711	24.4845	24.4838	84.29	0.52	6.77021
28.755	29	13.0651	38.490547	32.5853	13.0612	24.5113	24.5106	83.78	0.52	6.83983
29.746	30	12.9071	38.359715	32.5971	12.9032	24.5515	24.5508	83.32	0.52	6.94731
30.738	31	12.7315	38.209454	32.6058	12.7274	24.5924	24.5916	81.52	0.52	6.95406
31.729	32	12.6258	38.116714	32.6085	12.6217	24.6149	24.6141	79.85	0.52	6.99413
32.721	33	12.5419	38.042912	32.6104	12.5376	24.6326	24.6317	79.22	0.51	6.99264
33.712	34	12.2448	37.783642	32.6199	12.2404	24.6964	24.6956	78.83	0.51	7.04206
34.704	35	12.1273	37.682343	32.6244	12.1229	24.7221	24.7212	78.36	0.51	6.94809
35.695	36	12.0313	37.597866	32.6263	12.0268	24.7416	24.7407	77.8	0.51	6.88209
36.686	37	11.8062	37.39941	32.6308	11.8016	24.7868	24.786	73.36	0.51	6.90121
37.678	38	11.645	37.259659	32.6361	11.6403	24.8206	24.8197	73.19	0.51	6.77706
38.669	39	11.564	37.191486	32.6404	11.5592	24.8388	24.8379	78.2	0.51	6.59046
39.661	40	11.4126	37.059204	32.6441	11.4077	24.8691	24.8682	82.31	0.51	6.6366
40.652	41	11.3295	36.985027	32.6443	11.3245	24.8843	24.8834	85.24	0.51	6.57756
41.644	42	11.1646	36.836964	32.6443	11.1595	24.9137	24.9128	86.25	0.51	6.65196
42.635	43	11.0556	36.740582	32.6454	11.0505	24.9339	24.933	87.64	0.5	6.64982
43.626	44	10.9867	36.678822	32.6451	10.9815	24.9459	24.945	88.26	0.5	6.66479
44.618	45	10.831	36.538292	32.6439	10.8257	24.9723	24.9714	88.74	0.5	6.71112
45.609	46	10.4878	36.231007	32.6436	10.4825	25.0314	25.0305	89.13	0.49	6.74932
46.601	47	10.2462	36.026405	32.6545	10.2408	25.081	25.0801	89.32	0.5	6.82284
47.592	48	10.0668	35.867855	32.6556	10.0614	25.1119	25.111	90.03	0.49	6.85943
48.583	49	9.9104	35.732422	32.6591	9.905	25.1407	25.1398	90.37	0.49	6.88998

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water [m]		primary IPTS-68 [deg C]	primary [mS/cm]	PSS- 78 [PSU]	primary IPTS- 68 [deg C]	sigma- θ [kg/m ³]	sigma-t [kg/m ³]			[ml/l]
49.575	50	9.7829	35.620785	32.6606	9.7774	25.1628	25.1619	90.53	0.49	6.84591
50.566	51	9.7754	35.616787	32.6629	9.7698	25.1658	25.1649	90.44	0.5	6.8197
51.557	52	9.5648	35.432129	32.6651	9.5591	25.2018	25.2009	90.62	0.49	6.91422
52.549	53	9.5097	35.383591	32.665	9.504	25.2106	25.2097	90.89	0.49	6.83779
53.54	54	9.4035	35.289967	32.6651	9.3977	25.2278	25.2269	91.04	0.49	6.86944
54.531	55	9.3414	35.235191	32.6651	9.3355	25.2377	25.2367	91.11	0.49	6.8675
55.523	56	9.3035	35.202274	32.6653	9.2975	25.2439	25.2429	91.21	0.48	6.86643
56.514	57	9.2816	35.18383	32.6658	9.2756	25.2478	25.2468	91.25	0.48	6.84318
57.505	58	9.2672	35.171616	32.666	9.261	25.2502	25.2492	91.26	0.48	6.87579
58.497	59	9.2405	35.148388	32.666	9.2342	25.2544	25.2535	91.23	0.48	6.85049
59.488	60	9.1483	35.065834	32.6646	9.142	25.2679	25.2669	91.29	0.48	6.88222
60.479	61	9.0916	35.016354	32.6649	9.0852	25.277	25.276	91.32	0.48	6.87741
61.471	62	9.0574	34.985497	32.6637	9.0509	25.2815	25.2805	91.36	0.48	6.82634
62.462	63	8.9509	34.890293	32.6622	8.9443	25.2969	25.2959	91.38	0.48	6.88841
63.453	64	8.9199	34.862991	32.6618	8.9133	25.3014	25.3004	91.4	0.48	6.85879
64.445	65	8.8984	34.844994	32.6624	8.8916	25.3052	25.3042	91.37	0.48	6.8474
65.436	66	8.87	34.822235	32.6644	8.8631	25.3112	25.3101	91.43	0.48	6.86095
66.427	67	8.851	34.806854	32.6654	8.8441	25.3149	25.3138	91.52	0.48	6.85143
67.419	68	8.7943	34.757835	32.666	8.7873	25.3241	25.323	91.6	0.48	6.86228
68.41	69	8.74	34.711823	32.6676	8.7329	25.3336	25.3325	91.67	0.48	6.81585
69.401	70	8.7182	34.695797	32.6704	8.7111	25.3392	25.3381	91.62	0.49	6.74451
70.392	71	8.6513	34.634548	32.6676	8.6441	25.3472	25.3461	91.7	0.48	6.74567
71.384	72	8.6043	34.593773	32.6678	8.597	25.3545	25.3534	91.75	0.48	6.75659
72.375	73	8.5794	34.572506	32.668	8.5721	25.3584	25.3573	91.8	0.48	6.79191
73.366	74	8.5635	34.55896	32.6681	8.556	25.3609	25.3598	91.79	0.48	6.74945
74.357	75	8.5128	34.514915	32.6683	8.5052	25.3687	25.3676	91.78	0.48	6.73111
75.349	76	8.4574	34.46743	32.6692	8.4498	25.3777	25.3766	91.8	0.48	6.74989
76.34	77	8.3958	34.413124	32.6686	8.3881	25.3864	25.3853	91.79	0.48	6.76309
77.331	78	8.3188	34.345291	32.668	8.3111	25.3974	25.3963	91.72	0.48	6.76661
78.322	79	8.2895	34.321396	32.6695	8.2817	25.403	25.4018	91.72	0.48	6.79457
79.314	80	8.2725	34.30772	32.6704	8.2646	25.4062	25.405	91.73	0.48	6.86875
80.305	81	8.2402	34.279953	32.6706	8.2322	25.4112	25.41	91.77	0.48	6.84282
81.296	82	8.1609	34.212189	32.6721	8.1528	25.424	25.4228	91.78	0.48	6.84385
82.287	83	8.1394	34.194286	32.6727	8.1312	25.4276	25.4264	91.79	0.47	6.83163
83.279	84	8.1186	34.177345	32.6736	8.1104	25.4314	25.4302	91.76	0.47	6.82179
84.27	85	8.1028	34.164764	32.6744	8.0945	25.4343	25.4331	91.76	0.47	6.82923
85.261	86	8.0888	34.154186	32.6758	8.0804	25.4375	25.4363	91.81	0.47	6.80256
86.252	87	8.0781	34.144905	32.6754	8.0697	25.4388	25.4375	91.82	0.47	6.78715
87.243	88	8.0493	34.121605	32.6772	8.0407	25.4443	25.4431	91.76	0.47	6.84427
88.235	89	8.034	34.110802	32.6794	8.0254	25.4483	25.4471	91.79	0.47	6.81496
89.226	90	8.0225	34.102879	32.6812	8.0138	25.4514	25.4501	91.81	0.47	6.81163
90.217	91	8.0138	34.097198	32.6829	8.0049	25.454	25.4527	91.78	0.47	6.80122
91.208	92	7.9987	34.085678	32.6842	7.9898	25.4572	25.456	91.81	0.48	6.76821
92.199	93	7.9713	34.062767	32.685	7.9623	25.4618	25.4605	91.79	0.48	6.79596

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
93.19	94	7.917	34.019283	32.6889	7.9079	25.4727	25.4714	91.82	0.47	6.80476
94.182	95	7.8646	33.978168	32.6935	7.8555	25.4839	25.4826	91.84	0.47	6.79878
95.173	96	7.8532	33.969563	32.6946	7.844	25.4864	25.485	91.86	0.47	6.73845
96.164	97	7.8396	33.959572	32.6961	7.8303	25.4895	25.4882	91.88	0.47	6.74748
97.155	98	7.8339	33.955463	32.6966	7.8245	25.4908	25.4894	91.87	0.48	6.72718
98.146	99	7.8223	33.947384	32.6984	7.8128	25.4939	25.4925	91.87	0.48	6.75462
99.137	100	7.819	33.945465	32.6989	7.8095	25.4947	25.4933	91.85	0.47	6.72963
100.128	101	7.8214	33.948212	32.6992	7.8117	25.4946	25.4932	91.84	0.47	6.72252
101.12	102	7.8137	33.942635	32.7	7.8039	25.4964	25.495	91.87	0.47	6.73646
102.111	103	7.8099	33.939987	32.7003	7.8	25.4971	25.4957	91.88	0.47	6.76181
103.102	104	7.8043	33.935909	32.7006	7.7944	25.4982	25.4968	91.89	0.47	6.72881
104.093	105	7.8033	33.935295	32.7005	7.7932	25.4983	25.4968	91.86	0.46	6.69881
105.084	106	7.7998	33.932922	32.7007	7.7897	25.499	25.4975	91.86	0.47	6.71811
106.075	107	7.7819	33.920563	32.7039	7.7717	25.504	25.5025	91.85	0.47	6.74263
107.066	108	7.7291	33.887508	32.7175	7.7189	25.5222	25.5207	91.81	0.47	6.72942
108.057	109	7.6829	33.857281	32.728	7.6725	25.537	25.5356	91.85	0.47	6.73072
109.048	110	7.6567	33.840542	32.7341	7.6463	25.5455	25.5441	91.92	0.47	6.73757
110.039	111	7.6222	33.821106	32.7453	7.6117	25.5592	25.5577	91.96	0.48	6.71644
111.031	112	7.605	33.811302	32.7505	7.5944	25.5657	25.5642	91.95	0.49	6.65768
112.022	113	7.6011	33.809883	32.7522	7.5904	25.5676	25.5661	91.97	0.49	6.61642
113.013	114	7.5937	33.806549	32.7551	7.5829	25.5709	25.5694	91.98	0.49	6.57596
114.004	115	7.5821	33.819263	32.7791	7.5713	25.5915	25.5899	91.96	0.48	6.57234
114.995	116	7.612	33.876877	32.8125	7.601	25.6135	25.612	91.97	0.48	6.57537
115.986	117	7.6381	33.919662	32.8334	7.627	25.6262	25.6247	92	0.47	6.5625
116.977	118	7.6401	33.946491	32.8598	7.629	25.6468	25.6452	91.99	0.46	6.57181
117.968	119	7.6421	33.973995	32.887	7.6308	25.6679	25.6663	92.03	0.44	6.56024
118.959	120	7.6483	33.998909	32.9076	7.6369	25.6831	25.6815	92.06	0.45	6.4252
119.95	121	7.6482	34.012436	32.9217	7.6367	25.6943	25.6927	92.06	0.45	6.24267
120.941	122	7.6466	34.017593	32.9283	7.635	25.6997	25.6981	92.09	0.45	6.13573
121.932	123	7.6466	34.033787	32.9452	7.6349	25.713	25.7114	92.09	0.45	6.07541
122.923	124	7.6034	34.009762	32.9598	7.5916	25.7306	25.7289	92.09	0.45	6.05064
123.914	125	7.5612	33.976234	32.9632	7.5494	25.7392	25.7376	92.11	0.45	6.05202
124.905	126	7.532	33.954983	32.9675	7.5202	25.7467	25.745	92.09	0.45	6.05963
125.896	127	7.4958	33.943172	32.9886	7.4839	25.7684	25.7667	92.08	0.45	6.06519
126.887	128	7.4786	33.966007	33.0292	7.4666	25.8027	25.801	92.14	0.45	6.02637
127.878	129	7.4608	33.978943	33.0596	7.4487	25.8291	25.8274	92.16	0.45	5.9713
128.869	130	7.4366	33.972351	33.0751	7.4245	25.8446	25.8429	92.15	0.45	5.9423
129.86	131	7.4263	33.990639	33.1042	7.414	25.869	25.8673	92.17	0.45	5.8375
130.851	132	7.4018	34.004551	33.1421	7.3895	25.9022	25.9005	92.17	0.45	5.76706
131.842	133	7.3198	33.947144	33.1579	7.3074	25.9261	25.9244	92.14	0.45	5.77238
132.833	134	7.4695	34.141891	33.225	7.4569	25.958	25.9563	92.17	0.45	5.74114
133.824	135	7.5491	34.241493	33.2559	7.5363	25.9711	25.9693	92.19	0.45	5.66582
134.815	136	7.5788	34.289368	33.2787	7.5658	25.9849	25.9831	92.22	0.45	5.59757
135.806	137	7.5535	34.319912	33.3354	7.5405	26.033	26.0312	92.22	0.45	5.53649

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
136.797	138	7.543	34.33247	33.3585	7.5299	26.0527	26.0509	92.22	0.45	5.3846
137.788	139	7.5355	34.3353	33.3683	7.5223	26.0615	26.0596	92.24	0.45	5.17455
138.779	140	7.5378	34.349937	33.3814	7.5245	26.0715	26.0696	92.23	0.45	5.04297
139.77	141	7.5374	34.357502	33.3895	7.524	26.0779	26.076	92.22	0.45	4.97044
140.761	142	7.5318	34.357967	33.3948	7.5184	26.0829	26.081	92.23	0.45	4.93087
141.752	143	7.5244	34.367645	33.412	7.5108	26.0975	26.0955	92.24	0.45	4.93185
142.742	144	7.5921	34.479401	33.467	7.5784	26.1311	26.1291	92.2	0.45	4.91501
143.733	145	7.5926	34.520718	33.5106	7.5788	26.1653	26.1634	92.24	0.45	4.87852
144.724	146	7.59	34.534607	33.5276	7.5761	26.1791	26.1771	92.25	0.46	4.8292
145.715	147	7.5266	34.485973	33.5357	7.5127	26.1945	26.1925	92.23	0.46	4.67971
146.706	148	7.5193	34.496964	33.5543	7.5052	26.2101	26.2081	92.23	0.46	4.55431
147.697	149	7.5243	34.529869	33.5844	7.5102	26.2331	26.2311	92.22	0.46	4.49953
148.688	150	7.5304	34.552601	33.6027	7.5161	26.2466	26.2446	92.24	0.46	4.4655
149.679	151	7.5338	34.567787	33.6153	7.5194	26.2561	26.2541	92.24	0.45	4.48044
150.67	152	7.5346	34.581867	33.6293	7.5201	26.267	26.2649	92.24	0.45	4.47372
151.661	153	7.5434	34.606983	33.6474	7.5288	26.28	26.2779	92.22	0.45	4.41698
152.651	154	7.5428	34.614605	33.6557	7.5281	26.2866	26.2846	92.25	0.45	4.35613
153.642	155	7.5512	34.638607	33.673	7.5364	26.2991	26.297	92.23	0.45	4.32957
154.633	156	7.564	34.659508	33.6828	7.5491	26.3049	26.3028	92.25	0.45	4.30923
155.624	157	7.5689	34.671036	33.69	7.5539	26.3099	26.3078	92.24	0.45	4.2645
156.615	158	7.576	34.688187	33.7012	7.5609	26.3177	26.3156	92.25	0.45	4.20801
157.606	159	7.5787	34.69643	33.707	7.5635	26.3219	26.3197	92.23	0.45	4.14152
158.597	160	7.582	34.709019	33.7169	7.5667	26.3293	26.3271	92.25	0.46	4.06452
159.587	161	7.5844	34.718792	33.7246	7.569	26.335	26.3328	92.25	0.46	4.0239
160.578	162	7.5853	34.723133	33.728	7.5697	26.3376	26.3353	92.25	0.46	4.00246
161.569	163	7.5855	34.736736	33.742	7.5699	26.3485	26.3463	92.23	0.46	3.99819
162.56	164	7.5836	34.74239	33.7494	7.5679	26.3547	26.3524	92.24	0.46	3.9687
163.551	165	7.5797	34.74625	33.757	7.5638	26.3612	26.3589	92.23	0.46	3.95137
164.542	166	7.5731	34.749435	33.7663	7.5572	26.3695	26.3672	92.23	0.46	3.9351
165.532	167	7.5657	34.748543	33.772	7.5497	26.375	26.3727	92.25	0.46	3.90463
166.523	168	7.5558	34.743626	33.7758	7.5397	26.3794	26.3771	92.24	0.46	3.88444
167.514	169	7.5464	34.742054	33.7828	7.5303	26.3863	26.3839	92.25	0.46	3.86813
168.505	170	7.5435	34.744335	33.7876	7.5272	26.3905	26.3882	92.22	0.46	3.82497
169.496	171	7.5407	34.74469	33.7902	7.5243	26.393	26.3906	92.25	0.46	3.80545
170.486	172	7.5489	34.758438	33.7966	7.5324	26.3968	26.3945	92.24	0.46	3.79734
171.477	173	7.5531	34.766937	33.8013	7.5365	26.3999	26.3975	92.24	0.46	3.77783
172.468	174	7.5581	34.778641	33.8086	7.5415	26.4049	26.4025	92.23	0.46	3.77184
173.459	175	7.5338	34.766018	33.8181	7.517	26.4159	26.4135	92.25	0.46	3.76909
174.45	176	7.5457	34.786842	33.8285	7.5289	26.4224	26.42	92.24	0.46	3.75078
175.44	177	7.5431	34.791222	33.8353	7.5261	26.4282	26.4257	92.24	0.46	3.73026
176.431	178	7.5483	34.806969	33.8468	7.5313	26.4364	26.434	92.25	0.46	3.65736
177.422	179	7.523	34.796131	33.8593	7.5058	26.4499	26.4474	92.26	0.46	3.58895
178.413	180	7.5114	34.796638	33.8706	7.4942	26.4604	26.458	92.23	0.46	3.54296
179.403	181	7.4868	34.778034	33.874	7.4695	26.4666	26.4642	92.25	0.46	3.50557

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water [m]	[db]	primary IPTS-68 [deg C]	primary [mS/cm]	PSS- 78 [PSU]	primary IPTS- 68 [deg C]	sigma- θ [kg/m^3]	sigma-t [kg/m^3]			[ml/l]
180.394	182	7.4704	34.76656	33.8771	7.453	26.4714	26.4689	92.24	0.46	3.49336
181.385	183	7.4687	34.768425	33.8803	7.4512	26.4742	26.4717	92.24	0.46	3.4585
182.376	184	7.4659	34.768818	33.883	7.4483	26.4767	26.4742	92.22	0.47	3.44111
183.366	185	7.4613	34.768261	33.8864	7.4437	26.48	26.4775	92.24	0.47	3.43844
184.357	186	7.4516	34.764351	33.8911	7.4339	26.4851	26.4826	92.22	0.46	3.45102
185.348	187	7.4413	34.759541	33.8955	7.4235	26.49	26.4875	92.24	0.46	3.4527
186.338	188	7.4314	34.754932	33.8997	7.4135	26.4948	26.4922	92.25	0.46	3.44315
187.329	189	7.4217	34.749863	33.9031	7.4037	26.4988	26.4963	92.25	0.46	3.42651
188.32	190	7.4125	34.746193	33.9076	7.3945	26.5037	26.5011	92.21	0.46	3.40137
189.311	191	7.4031	34.74136	33.9111	7.385	26.5078	26.5052	92.23	0.46	3.37779
190.301	192	7.3888	34.730972	33.9134	7.3705	26.5116	26.509	92.23	0.46	3.34856
191.292	193	7.382	34.726639	33.9148	7.3637	26.5137	26.5111	92.24	0.46	3.30299
192.283	194	7.3662	34.71574	33.918	7.3478	26.5184	26.5158	92.25	0.46	3.29527
193.273	195	7.3538	34.708473	33.9217	7.3353	26.5231	26.5205	92.24	0.45	3.29446
194.264	196	7.3472	34.704288	33.9232	7.3286	26.5252	26.5226	92.22	0.45	3.2941
195.255	197	7.3386	34.698387	33.9246	7.32	26.5275	26.5249	92.24	0.45	3.29958
196.245	198	7.333	34.69632	33.9274	7.3143	26.5305	26.5279	92.24	0.45	3.26695
197.236	199	7.3205	34.68742	33.9295	7.3017	26.5339	26.5313	92.25	0.45	3.21137
198.227	200	7.3166	34.684944	33.9302	7.2977	26.535	26.5324	92.24	0.46	3.18363
199.217	201	7.303	34.671879	33.9288	7.284	26.5359	26.5332	92.24	0.46	3.17524
200.208	202	7.2581	34.631565	33.9284	7.2391	26.5418	26.5392	92.25	0.45	3.14211
201.199	203	7.2472	34.622757	33.929	7.2282	26.5438	26.5411	92.25	0.45	3.12707
202.189	204	7.2404	34.61739	33.9293	7.2213	26.545	26.5423	92.25	0.45	3.1406
203.18	205	7.2338	34.613064	33.9306	7.2146	26.547	26.5443	92.25	0.46	3.1558
204.17	206	7.2246	34.605869	33.9314	7.2052	26.5489	26.5462	92.25	0.46	3.19829
205.161	207	7.2088	34.592686	33.9319	7.1894	26.5515	26.5488	92.26	0.45	3.24797
206.152	208	7.1918	34.578926	33.9332	7.1723	26.5549	26.5522	92.27	0.45	3.2544
207.142	209	7.1735	34.56443	33.9348	7.154	26.5587	26.556	92.25	0.45	3.24968
208.133	210	7.1685	34.561302	33.9358	7.1489	26.5602	26.5575	92.26	0.46	3.234
209.124	211	7.1635	34.55843	33.9371	7.1438	26.5619	26.5592	92.22	0.46	3.23538
210.114	212	7.1619	34.557804	33.9375	7.1421	26.5625	26.5598	92.23	0.46	3.22924
211.105	213	7.1605	34.557159	33.9377	7.1406	26.5628	26.5601	92.25	0.46	3.19964
212.095	214	7.1578	34.555649	33.9382	7.1379	26.5636	26.5608	92.25	0.46	3.16845
213.086	215	7.1571	34.556225	33.9391	7.137	26.5644	26.5616	92.25	0.46	3.18331
214.076	216	7.1525	34.552258	33.9387	7.1324	26.5648	26.562	92.25	0.46	3.16939
215.067	217	7.1321	34.534203	33.9386	7.1119	26.5675	26.5647	92.24	0.46	3.16039
216.058	218	7.1188	34.522079	33.9379	7.0985	26.5688	26.566	92.23	0.46	3.16413
217.048	219	7.0763	34.483654	33.9372	7.056	26.5741	26.5713	92.24	0.46	3.1729
218.039	220	7.0465	34.461258	33.9414	7.0262	26.5815	26.5787	92.23	0.46	3.1749
219.029	221	7.037	34.453529	33.9419	7.0166	26.5832	26.5804	92.22	0.45	3.176
220.02	222	7.0305	34.448143	33.9419	7.01	26.5841	26.5813	92.25	0.45	3.16379
221.01	223	7.0205	34.43948	33.9417	6.9999	26.5854	26.5825	92.24	0.45	3.17139
222.001	224	7.0095	34.429363	33.9411	6.9888	26.5864	26.5835	92.24	0.46	3.14153
222.991	225	6.9892	34.4109	33.9403	6.9684	26.5886	26.5857	92.21	0.45	3.13689

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
223.982	226	6.9739	34.397804	33.9405	6.9531	26.5908	26.5879	92.23	0.45	3.14901
224.973	227	6.9673	34.392868	33.9411	6.9464	26.5921	26.5893	92.23	0.45	3.15292
225.963	228	6.9649	34.391163	33.9411	6.9439	26.5925	26.5896	92.23	0.45	3.16208
226.954	229	6.9618	34.389118	33.9414	6.9408	26.5932	26.5903	92.23	0.45	3.17018
227.944	230	6.9427	34.373291	33.9424	6.9216	26.5965	26.5937	92.24	0.45	3.18303
228.935	231	6.9244	34.358582	33.9438	6.9032	26.6002	26.5973	92.24	0.45	3.18852
229.925	232	6.9112	34.348103	33.9448	6.89	26.6027	26.5998	92.24	0.45	3.16635
230.916	233	6.906	34.344124	33.9451	6.8846	26.6037	26.6008	92.24	0.45	3.14535
231.906	234	6.8872	34.328812	33.9462	6.8659	26.6072	26.6043	92.24	0.45	3.11573
232.897	235	6.8606	34.306061	33.947	6.8392	26.6114	26.6085	92.23	0.45	3.10122
233.887	236	6.8385	34.2882	33.9487	6.817	26.6157	26.6128	92.25	0.45	3.09062
234.878	237	6.8313	34.282391	33.9489	6.8097	26.6168	26.6139	92.25	0.45	3.06648
235.868	238	6.8254	34.277473	33.9489	6.8037	26.6176	26.6147	92.24	0.45	3.0389
236.858	239	6.8091	34.263348	33.9489	6.7874	26.6198	26.6169	92.24	0.45	3.00818
237.849	240	6.7938	34.250149	33.949	6.772	26.622	26.6191	92.25	0.44	2.98123
238.839	241	6.7795	34.238304	33.9496	6.7576	26.6244	26.6214	92.25	0.44	2.95845
239.83	242	6.7612	34.222805	33.9501	6.7393	26.6272	26.6243	92.26	0.44	2.94189
240.82	243	6.7443	34.207699	33.9496	6.7223	26.6292	26.6262	92.25	0.44	2.92919
241.811	244	6.724	34.190075	33.9498	6.702	26.632	26.629	92.25	0.44	2.92896
242.801	245	6.7165	34.184528	33.9506	6.6944	26.6337	26.6307	92.25	0.44	2.90651
243.792	246	6.6851	34.157028	33.9508	6.663	26.638	26.635	92.27	0.44	2.87845
244.782	247	6.67	34.144043	33.9509	6.6478	26.6401	26.6372	92.26	0.44	2.88136
245.772	248	6.6607	34.136135	33.9508	6.6385	26.6413	26.6383	92.25	0.44	2.87986
246.763	249	6.6524	34.128353	33.95	6.6301	26.6417	26.6387	92.26	0.44	2.8669
247.753	250	6.6437	34.120983	33.95	6.6212	26.6429	26.6399	92.26	0.44	2.84415
248.744	251	6.6328	34.111485	33.9498	6.6103	26.6442	26.6412	92.26	0.44	2.82197
249.734	252	6.617	34.097771	33.9498	6.5944	26.6463	26.6433	92.23	0.44	2.81108
250.725	253	6.6067	34.089016	33.9498	6.584	26.6477	26.6447	92.24	0.44	2.81961
251.715	254	6.6048	34.087734	33.9498	6.5821	26.6479	26.6449	92.23	0.44	2.83278
252.705	255	6.5853	34.070351	33.9494	6.5625	26.6502	26.6472	92.25	0.44	2.82786
253.696	256	6.568	34.05637	33.9505	6.5452	26.6534	26.6504	92.24	0.44	2.82423
254.686	257	6.568	34.056885	33.9506	6.5451	26.6535	26.6504	92.26	0.44	2.81519
255.676	258	6.568	34.057247	33.9505	6.545	26.6534	26.6504	92.25	0.44	2.81206
256.667	259	6.5656	34.055607	33.9506	6.5425	26.6538	26.6508	92.26	0.44	2.79109
257.657	260	6.5572	34.048725	33.9508	6.534	26.6551	26.652	92.26	0.44	2.77746
258.648	261	6.54	34.033756	33.9507	6.5168	26.6573	26.6542	92.25	0.44	2.7773
259.638	262	6.5127	34.009968	33.951	6.4895	26.661	26.658	92.26	0.44	2.77261
260.628	263	6.4972	33.996532	33.951	6.4738	26.6631	26.6601	92.26	0.44	2.75829
261.619	264	6.4871	33.987762	33.9508	6.4637	26.6643	26.6612	92.26	0.44	2.73503
262.609	265	6.4723	33.974579	33.9503	6.4489	26.6658	26.6627	92.26	0.44	2.73404
263.599	266	6.4596	33.963772	33.9505	6.4361	26.6676	26.6646	92.26	0.44	2.72331
264.59	267	6.4483	33.954189	33.9505	6.4247	26.6692	26.6661	92.26	0.43	2.71017
265.58	268	6.4386	33.945873	33.9504	6.415	26.6703	26.6673	92.27	0.43	2.7122
266.57	269	6.4351	33.94355	33.9508	6.4114	26.6712	26.6681	92.26	0.43	2.71173

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
267.561	270	6.429	33.938198	33.9504	6.4052	26.6716	26.6685	92.27	0.43	2.6974
268.551	271	6.4235	33.933388	33.9501	6.3996	26.6721	26.669	92.28	0.43	2.68238
269.541	272	6.4013	33.912724	33.9486	6.3774	26.6738	26.6707	92.26	0.43	2.6745
270.532	273	6.3884	33.903095	33.9502	6.3644	26.6768	26.6737	92.27	0.43	2.68032
271.522	274	6.3908	33.906719	33.9514	6.3667	26.6774	26.6743	92.27	0.43	2.68146
272.512	275	6.3771	33.895576	33.9522	6.3529	26.6798	26.6767	92.27	0.43	2.69741
273.503	276	6.3591	33.879913	33.9521	6.3349	26.682	26.6789	92.29	0.43	2.69217
274.493	277	6.3422	33.864784	33.9516	6.318	26.6839	26.6807	92.25	0.43	2.65341
275.483	278	6.3333	33.85725	33.9516	6.309	26.685	26.6819	92.29	0.43	2.61326
276.473	279	6.3303	33.854725	33.9512	6.3059	26.6851	26.682	92.29	0.43	2.5823
277.464	280	6.318	33.844082	33.9512	6.2935	26.6867	26.6835	92.3	0.43	2.57952
278.454	281	6.2999	33.828724	33.9516	6.2753	26.6893	26.6862	92.3	0.43	2.57917
279.444	282	6.2867	33.817539	33.9517	6.2621	26.6912	26.688	92.3	0.43	2.58283
280.434	283	6.2755	33.809105	33.9529	6.2509	26.6935	26.6903	92.29	0.43	2.58533
281.425	284	6.2614	33.796658	33.9526	6.2367	26.6951	26.692	92.28	0.43	2.56923
282.415	285	6.2381	33.775738	33.9519	6.2134	26.6976	26.6944	92.31	0.43	2.55327
283.405	286	6.2204	33.759964	33.9515	6.1956	26.6995	26.6964	92.31	0.43	2.54707
284.395	287	6.2063	33.74728	33.9508	6.1815	26.7008	26.6976	92.28	0.43	2.53173
285.386	288	6.1869	33.72929	33.9495	6.1621	26.7022	26.6991	92.31	0.43	2.49988
286.376	289	6.1509	33.696026	33.9478	6.126	26.7055	26.7023	92.3	0.43	2.48808
287.366	290	6.0895	33.640888	33.9468	6.0647	26.7124	26.7093	92.29	0.43	2.50361
288.356	291	6.0847	33.636551	33.9463	6.0598	26.7126	26.7095	92.29	0.43	2.51241
289.347	292	6.0775	33.630257	33.9459	6.0525	26.7133	26.7101	92.29	0.43	2.52472
290.337	293	6.0746	33.628304	33.9461	6.0495	26.7138	26.7106	92.28	0.43	2.52139
291.327	294	6.0694	33.626114	33.9483	6.0443	26.7162	26.713	92.29	0.43	2.51738
292.317	295	6.0667	33.625992	33.9504	6.0415	26.7182	26.715	92.3	0.43	2.52316
293.307	296	6.0637	33.624474	33.9512	6.0384	26.7192	26.716	92.3	0.43	2.51451
294.298	297	6.0646	33.626709	33.9523	6.0392	26.72	26.7168	92.03	0.43	2.50453
295.288	298	6.0657	33.628456	33.9527	6.0402	26.7202	26.7169	92.3	0.43	2.4758
296.278	299	6.0663	33.62981	33.953	6.0408	26.7204	26.7172	92.31	0.43	2.42297
297.268	300	6.0672	33.631584	33.9536	6.0416	26.7208	26.7175	92.3	0.43	2.38737
298.258	301	6.0658	33.631165	33.9541	6.04	26.7213	26.7181	92.3	0.43	2.36753
299.248	302	6.0515	33.618305	33.9535	6.0257	26.7226	26.7194	92.31	0.43	2.36805
300.239	303	6.0321	33.601742	33.9538	6.0062	26.7253	26.7221	92.31	0.43	2.36557
301.229	304	6.0064	33.580204	33.9548	5.9805	26.7293	26.7261	92.32	0.43	2.35516
302.219	305	5.9918	33.567696	33.9548	5.9659	26.7312	26.7279	92.34	0.43	2.35694
303.209	306	5.9438	33.523048	33.9521	5.9179	26.7351	26.7318	92.29	0.43	2.33679
304.199	307	5.9158	33.496544	33.9499	5.8899	26.7368	26.7335	92.3	0.43	2.29251
305.189	308	5.8883	33.471695	33.9489	5.8624	26.7394	26.7362	92.26	0.43	2.2687
306.179	309	5.8768	33.462234	33.9493	5.8508	26.7412	26.738	92.29	0.43	2.28678
307.17	310	5.869	33.456741	33.9504	5.8429	26.743	26.7398	92.31	0.43	2.30337
308.16	311	5.8605	33.449966	33.9508	5.8343	26.7444	26.7412	92.34	0.43	2.31483
309.15	312	5.8401	33.433388	33.9521	5.8139	26.748	26.7447	92.36	0.43	2.31572
310.14	313	5.8225	33.417107	33.9508	5.7963	26.7491	26.7459	92.32	0.43	2.3116

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
311.13	314	5.812	33.40823	33.9509	5.7857	26.7505	26.7472	92.35	0.43	2.283
312.12	315	5.8098	33.407028	33.9512	5.7834	26.751	26.7478	92.34	0.43	2.24517
313.11	316	5.8073	33.405476	33.9514	5.7809	26.7515	26.7482	92.33	0.43	2.21682
314.1	317	5.8005	33.400478	33.9522	5.7739	26.7529	26.7497	92.35	0.43	2.21825
315.09	318	5.7941	33.395512	33.9524	5.7675	26.7539	26.7507	92.34	0.43	2.21649
316.081	319	5.7853	33.389103	33.9535	5.7587	26.7559	26.7526	92.36	0.43	2.21626
317.071	320	5.7789	33.384056	33.9538	5.7522	26.7569	26.7536	92.36	0.43	2.2214
318.061	321	5.7691	33.376144	33.9541	5.7424	26.7584	26.7551	92.36	0.43	2.20453
319.051	322	5.7526	33.360325	33.9523	5.7258	26.759	26.7557	92.36	0.43	2.16865
320.041	323	5.7235	33.334141	33.9515	5.6966	26.7619	26.7586	92.34	0.43	2.15883
321.031	324	5.7197	33.332195	33.9526	5.6928	26.7632	26.7599	92.35	0.43	2.1468
322.021	325	5.706	33.318638	33.9505	5.6791	26.7632	26.7599	92.36	0.43	2.14009
323.011	326	5.6834	33.297932	33.9493	5.6564	26.765	26.7617	92.33	0.43	2.14996
324.001	327	5.6716	33.287601	33.9489	5.6445	26.7662	26.7629	92.33	0.43	2.16269
324.991	328	5.6632	33.280075	33.9484	5.6361	26.7668	26.7635	92.34	0.43	2.15569
325.981	329	5.6528	33.272682	33.95	5.6256	26.7693	26.766	92.34	0.43	2.14951
326.971	330	5.644	33.266468	33.9512	5.6168	26.7714	26.7681	92.35	0.43	2.15396
327.961	331	5.6278	33.252743	33.9515	5.6005	26.7735	26.7702	92.36	0.43	2.16139
328.951	332	5.6076	33.234962	33.9511	5.5803	26.7757	26.7724	92.35	0.43	2.16048
329.941	333	5.5985	33.227329	33.9512	5.5711	26.7768	26.7735	92.35	0.43	2.12435
330.931	334	5.5878	33.219337	33.9523	5.5604	26.779	26.7757	92.36	0.43	2.098
331.921	335	5.5742	33.209118	33.9539	5.5467	26.782	26.7787	92.35	0.43	2.09663
332.911	336	5.5668	33.203453	33.9544	5.5393	26.7832	26.7799	92.39	0.43	2.09276
333.901	337	5.5571	33.1954	33.9545	5.5295	26.7845	26.7812	92.37	0.43	2.08678
334.891	338	5.5397	33.180504	33.9546	5.5121	26.7867	26.7834	92.4	0.43	2.07467
335.881	339	5.5217	33.164299	33.9538	5.4941	26.7882	26.7849	92.41	0.43	2.04148
336.871	340	5.5139	33.157623	33.9536	5.4861	26.789	26.7857	92.35	0.43	2.00989
337.861	341	5.5002	33.144718	33.9522	5.4724	26.7895	26.7862	92.35	0.43	1.99621
338.851	342	5.4721	33.117958	33.9496	5.4443	26.7908	26.7875	92.32	0.43	1.99481
339.841	343	5.4534	33.101479	33.9492	5.4255	26.7927	26.7894	92.36	0.43	1.99774
340.831	344	5.4294	33.079666	33.9481	5.4015	26.7947	26.7914	92.36	0.43	2.01151
341.821	345	5.4044	33.058258	33.9483	5.3765	26.7979	26.7946	92.33	0.43	2.03367
342.811	346	5.3999	33.054417	33.9481	5.3719	26.7982	26.7949	92.36	0.43	2.0505
343.801	347	5.3904	33.046295	33.9478	5.3624	26.7991	26.7958	92.36	0.43	2.05405
344.791	348	5.3826	33.039879	33.9479	5.3545	26.8001	26.7968	92.36	0.43	2.05337
345.781	349	5.3752	33.034008	33.9482	5.3471	26.8012	26.7979	92.35	0.42	2.05457
346.771	350	5.3612	33.022526	33.9487	5.333	26.8033	26.8	92.34	0.42	2.04602
347.761	351	5.3491	33.012753	33.9493	5.3209	26.8052	26.8018	92.34	0.42	2.04241
348.751	352	5.3444	33.009197	33.9495	5.3161	26.8059	26.8026	92.36	0.42	2.02603
349.741	353	5.3436	33.008869	33.9493	5.3153	26.8059	26.8025	92.32	0.42	2.01304
350.731	354	5.339	33.005642	33.9498	5.3106	26.8068	26.8035	92.35	0.42	2.00756
351.721	355	5.3354	33.002972	33.9499	5.3069	26.8073	26.804	92.36	0.42	2.00344
352.71	356	5.3247	32.994278	33.9503	5.2961	26.8089	26.8056	92.35	0.42	1.98929
353.7	357	5.3124	32.984764	33.9514	5.2838	26.8112	26.8078	92.36	0.42	1.98924

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
354.69	358	5.3085	32.9823	33.9519	5.2799	26.8121	26.8087	92.36	0.42	1.99599
355.68	359	5.3012	32.976402	33.9521	5.2724	26.8131	26.8097	92.36	0.42	1.99504
356.67	360	5.2958	32.972149	33.9522	5.267	26.8138	26.8105	92.32	0.42	1.98533
357.66	361	5.2901	32.967846	33.9525	5.2612	26.8147	26.8113	92.36	0.42	1.95669
358.65	362	5.2857	32.964554	33.9527	5.2568	26.8154	26.812	92.35	0.42	1.93859
359.64	363	5.2782	32.958668	33.953	5.2492	26.8166	26.8132	92.36	0.42	1.93711
360.63	364	5.2684	32.950607	33.9532	5.2393	26.8179	26.8145	92.36	0.42	1.93381
361.619	365	5.2634	32.946644	33.9533	5.2343	26.8185	26.8151	92.36	0.42	1.92913
362.609	366	5.2609	32.945171	33.9536	5.2317	26.8191	26.8156	92.35	0.42	1.92271
363.599	367	5.25	32.935047	33.9525	5.2207	26.8195	26.8161	92.35	0.42	1.9218
364.589	368	5.227	32.915085	33.9524	5.1977	26.8221	26.8187	92.36	0.42	1.92404
365.579	369	5.2142	32.904472	33.9527	5.1849	26.8238	26.8204	92.36	0.42	1.91524
366.569	370	5.2118	32.903969	33.9541	5.1824	26.8252	26.8218	92.35	0.42	1.91482
367.559	371	5.2019	32.895752	33.9542	5.1724	26.8265	26.823	92.36	0.42	1.90565
368.548	372	5.1976	32.892239	33.954	5.168	26.8268	26.8234	92.36	0.42	1.90327
369.538	373	5.1936	32.889042	33.9539	5.164	26.8271	26.8237	92.36	0.42	1.89998
370.528	374	5.1923	32.888275	33.9538	5.1627	26.8272	26.8238	92.34	0.42	1.88963
371.518	375	5.1868	32.88345	33.9533	5.1571	26.8275	26.8241	92.35	0.42	1.88221
372.508	376	5.1758	32.8731	33.9521	5.1461	26.8278	26.8243	92.36	0.42	1.88373
373.498	377	5.1609	32.859287	33.9508	5.1311	26.8285	26.8251	92.35	0.42	1.88716
374.487	378	5.1513	32.851322	33.9509	5.1214	26.8297	26.8263	92.35	0.42	1.88825
375.477	379	5.1362	32.838619	33.9512	5.1063	26.8317	26.8282	92.34	0.42	1.88817
376.467	380	5.1266	32.830231	33.9508	5.0966	26.8325	26.829	92.36	0.42	1.90127
377.457	381	5.1217	32.826271	33.9507	5.0916	26.833	26.8295	92.35	0.42	1.91136
378.447	382	5.1185	32.823795	33.9506	5.0884	26.8333	26.8298	92.35	0.42	1.91644
379.436	383	5.1076	32.813835	33.9497	5.0774	26.8338	26.8304	92.36	0.42	1.90496
380.426	384	5.0937	32.801365	33.9489	5.0636	26.8348	26.8313	92.35	0.42	1.89785
381.416	385	5.0676	32.778763	33.9489	5.0374	26.8378	26.8344	92.36	0.42	1.90005
382.406	386	5.0546	32.768162	33.9494	5.0243	26.8397	26.8362	92.33	0.42	1.9009
383.395	387	5.0456	32.761024	33.9498	5.0153	26.841	26.8375	92.33	0.42	1.9002
384.385	388	5.0382	32.754997	33.9499	5.0079	26.8419	26.8385	92.33	0.42	1.90132
385.375	389	5.0297	32.748528	33.9505	4.9993	26.8434	26.84	92.34	0.42	1.90341
386.365	390	5.0225	32.743008	33.951	4.9921	26.8446	26.8411	92.33	0.42	1.89139
387.354	391	5.0083	32.731884	33.9521	4.9778	26.8472	26.8437	92.35	0.42	1.86983
388.344	392	5.0028	32.728046	33.9527	4.9723	26.8483	26.8448	92.36	0.42	1.86557
389.334	393	4.9986	32.724926	33.9529	4.968	26.8489	26.8454	92.36	0.42	1.86133
390.324	394	4.9878	32.716549	33.9538	4.9571	26.8508	26.8473	92.36	0.42	1.85506
391.313	395	4.979	32.709644	33.9542	4.9483	26.8521	26.8486	92.33	0.42	1.85002
392.303	396	4.962	32.696327	33.9556	4.9313	26.8552	26.8517	92.36	0.42	1.83438
393.293	397	4.9549	32.690865	33.9561	4.924	26.8564	26.8529	92.35	0.42	1.8165
394.282	398	4.9451	32.682991	33.9564	4.9142	26.8578	26.8543	92.35	0.42	1.80741
395.272	399	4.929	32.670444	33.9578	4.8981	26.8607	26.8572	92.36	0.42	1.79403
396.262	400	4.9251	32.667686	33.9581	4.8941	26.8613	26.8578	92.36	0.42	1.78684
397.252	401	4.9139	32.658257	33.9581	4.8828	26.8627	26.8592	92.36	0.42	1.78084

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
398.241	402	4.9069	32.653347	33.959	4.8758	26.8642	26.8607	92.36	0.42	1.77541
399.231	403	4.9061	32.653076	33.959	4.8749	26.8643	26.8607	92.36	0.42	1.77079
400.221	404	4.9048	32.652435	33.9591	4.8736	26.8644	26.8609	92.36	0.42	1.76004
401.21	405	4.8906	32.640816	33.9596	4.8594	26.8665	26.8629	92.36	0.42	1.74319
402.2	406	4.8789	32.631886	33.9607	4.8476	26.8686	26.8651	92.38	0.42	1.73605
403.19	407	4.8697	32.624741	33.9613	4.8383	26.8702	26.8667	92.36	0.42	1.73641
404.179	408	4.8642	32.620743	33.9617	4.8328	26.8711	26.8676	92.38	0.42	1.73343
405.169	409	4.8621	32.619499	33.962	4.8306	26.8716	26.868	92.39	0.42	1.72
406.159	410	4.8606	32.618835	33.9622	4.8291	26.8719	26.8684	92.39	0.42	1.70637
407.148	411	4.8602	32.618973	33.9623	4.8285	26.8721	26.8685	92.41	0.42	1.69923
408.138	412	4.8601	32.619446	33.9624	4.8284	26.8721	26.8686	92.41	0.42	1.69661
409.128	413	4.8597	32.619507	33.9624	4.8279	26.8722	26.8686	92.38	0.42	1.6927
410.117	414	4.8581	32.61842	33.9623	4.8262	26.8723	26.8687	92.41	0.42	1.69117
411.107	415	4.8504	32.612411	33.9626	4.8184	26.8735	26.8699	92.41	0.42	1.69251
412.096	416	4.8458	32.60899	33.9629	4.8137	26.8742	26.8706	92.41	0.42	1.69073
413.086	417	4.8391	32.603874	33.9632	4.807	26.8752	26.8716	92.41	0.42	1.69283
414.076	418	4.8353	32.601147	33.9635	4.8031	26.8758	26.8722	92.39	0.42	1.69208
415.065	419	4.8274	32.594902	33.9638	4.7952	26.877	26.8734	92.41	0.42	1.67967
416.055	420	4.8229	32.591492	33.9639	4.7907	26.8775	26.8739	92.41	0.42	1.67343
417.045	421	4.8163	32.586342	33.9642	4.7839	26.8785	26.8749	92.41	0.42	1.67322
418.034	422	4.8102	32.582241	33.9651	4.7778	26.88	26.8764	92.41	0.42	1.67056
419.024	423	4.8064	32.57972	33.9656	4.7739	26.8808	26.8771	92.41	0.42	1.6627
420.013	424	4.7963	32.572197	33.9666	4.7638	26.8827	26.8791	92.39	0.42	1.6565
421.003	425	4.7906	32.568237	33.9673	4.7581	26.8839	26.8803	92.33	0.42	1.64764
421.992	426	4.7865	32.565716	33.9681	4.7538	26.885	26.8814	92.39	0.42	1.63348
422.982	427	4.785	32.566116	33.9695	4.7523	26.8863	26.8827	92.37	0.42	1.62558
423.972	428	4.7735	32.55685	33.9701	4.7408	26.888	26.8844	92.4	0.42	1.61667
424.961	429	4.7551	32.54187	33.9709	4.7224	26.8907	26.8871	92.41	0.42	1.60987
425.951	430	4.7379	32.5289	33.9729	4.7052	26.8942	26.8906	92.41	0.42	1.60538
426.94	431	4.7358	32.527557	33.973	4.7029	26.8946	26.8909	92.41	0.42	1.59721
427.93	432	4.7301	32.523117	33.9732	4.6972	26.8953	26.8917	92.41	0.42	1.57582
428.919	433	4.7255	32.519485	33.9732	4.6925	26.8958	26.8922	92.41	0.42	1.55609
429.909	434	4.7209	32.516376	33.9738	4.6878	26.8968	26.8932	92.41	0.42	1.54499
430.898	435	4.7157	32.512848	33.9744	4.6826	26.8979	26.8942	92.42	0.42	1.5232
431.888	436	4.7099	32.508919	33.9753	4.6768	26.8992	26.8955	92.43	0.42	1.51805
432.878	437	4.7076	32.507626	33.9756	4.6744	26.8997	26.8961	92.43	0.42	1.51416
433.867	438	4.7059	32.50666	33.9758	4.6726	26.9001	26.8964	92.45	0.42	1.5116
434.857	439	4.7001	32.502529	33.9764	4.6667	26.9012	26.8975	92.42	0.42	1.50955
435.846	440	4.6893	32.494553	33.9776	4.6559	26.9034	26.8997	92.42	0.42	1.50203
436.836	441	4.6785	32.486938	33.9793	4.6451	26.9059	26.9022	92.42	0.42	1.49516
437.825	442	4.6749	32.484638	33.9798	4.6414	26.9067	26.903	92.43	0.42	1.49015
438.815	443	4.6716	32.482491	33.9801	4.638	26.9073	26.9037	92.43	0.42	1.48328
439.804	444	4.6646	32.477417	33.9809	4.631	26.9087	26.905	92.43	0.42	1.4697
440.794	445	4.6581	32.472839	33.9817	4.6244	26.9101	26.9064	92.44	0.42	1.46275

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
441.783	446	4.6515	32.46862	33.9831	4.6177	26.9119	26.9082	92.46	0.42	1.46515
442.773	447	4.646	32.465172	33.9841	4.6122	26.9133	26.9096	92.46	0.42	1.45998
443.762	448	4.6405	32.461548	33.9851	4.6066	26.9147	26.911	92.46	0.42	1.45878
444.751	449	4.6362	32.45853	33.9854	4.6022	26.9155	26.9118	92.46	0.42	1.45419
445.741	450	4.6314	32.454773	33.9855	4.5974	26.916	26.9123	92.46	0.42	1.43264
446.73	451	4.628	32.452637	33.9859	4.5939	26.9168	26.913	92.45	0.42	1.41418
447.72	452	4.6236	32.449699	33.9865	4.5895	26.9177	26.914	92.45	0.42	1.4049
448.709	453	4.6204	32.447765	33.987	4.5862	26.9185	26.9148	92.41	0.42	1.40407
449.699	454	4.6173	32.44643	33.9881	4.5831	26.9197	26.9159	92.47	0.42	1.40731
450.688	455	4.6129	32.443417	33.9886	4.5786	26.9205	26.9168	92.46	0.42	1.40628
451.678	456	4.6105	32.44207	33.989	4.5761	26.9212	26.9174	92.47	0.42	1.40425
452.667	457	4.6071	32.439758	33.9893	4.5726	26.9218	26.918	92.47	0.42	1.3986
453.656	458	4.5976	32.433002	33.9906	4.5631	26.9238	26.92	92.48	0.42	1.39086
454.646	459	4.589	32.427094	33.992	4.5545	26.9259	26.9221	92.48	0.42	1.38489
455.635	460	4.5846	32.424522	33.9931	4.5499	26.9272	26.9235	92.48	0.42	1.37941
456.625	461	4.5791	32.421406	33.9945	4.5444	26.929	26.9252	92.48	0.42	1.37177
457.614	462	4.5755	32.419575	33.9955	4.5408	26.9302	26.9264	92.48	0.42	1.36203
458.604	463	4.5679	32.41518	33.9977	4.5331	26.9327	26.929	92.48	0.42	1.34914
459.593	464	4.5649	32.41362	33.9985	4.53	26.9337	26.9299	92.49	0.42	1.34076
460.582	465	4.564	32.41349	33.9987	4.529	26.934	26.9302	92.49	0.42	1.33031
461.572	466	4.5631	32.413792	33.9995	4.5281	26.9347	26.9309	92.48	0.42	1.31142
462.561	467	4.5633	32.415005	34.0002	4.5282	26.9352	26.9314	92.5	0.42	1.29258
463.551	468	4.5633	32.415924	34.0007	4.5281	26.9357	26.9318	92.5	0.42	1.27794
464.54	469	4.562	32.416035	34.0017	4.5267	26.9366	26.9328	92.49	0.42	1.27027
465.529	470	4.5573	32.413754	34.0033	4.522	26.9384	26.9345	92.49	0.42	1.26769
466.519	471	4.552	32.407448	34.0008	4.5166	26.937	26.9332	92.5	0.42	1.26153
467.508	472	4.548	32.408482	34.0057	4.5125	26.9413	26.9374	92.5	0.42	1.24997
468.497	473	4.545	32.406727	34.0062	4.5094	26.9421	26.9382	92.5	0.42	1.23563
469.487	474	4.5449	32.409172	34.0086	4.5093	26.944	26.9401	92.5	0.42	1.21676
470.476	475	4.538	32.403942	34.0091	4.5023	26.9451	26.9413	92.5	0.42	1.20807
471.465	476	4.5255	32.392879	34.0085	4.4898	26.946	26.9421	92.5	0.42	1.20425
472.455	477	4.5201	32.388645	34.0086	4.4844	26.9466	26.9428	92.5	0.42	1.19584
473.444	478	4.5184	32.387581	34.0086	4.4826	26.9469	26.943	92.51	0.42	1.18551
474.433	479	4.5166	32.386631	34.0088	4.4807	26.9472	26.9433	92.49	0.42	1.17288
475.423	480	4.5162	32.387482	34.0097	4.4802	26.948	26.9441	92.5	0.42	1.17544
476.412	481	4.5093	32.382866	34.0109	4.4733	26.9497	26.9458	92.51	0.42	1.17643
477.401	482	4.5063	32.380981	34.0112	4.4702	26.9503	26.9464	92.51	0.42	1.17962
478.391	483	4.5004	32.37709	34.0122	4.4642	26.9517	26.9478	92.51	0.42	1.17915
479.38	484	4.4976	32.375854	34.0132	4.4613	26.9528	26.9489	92.51	0.42	1.1762
480.369	485	4.4941	32.373905	34.0139	4.4578	26.9537	26.9498	92.51	0.42	1.16714
481.359	486	4.4903	32.371368	34.0144	4.4539	26.9545	26.9506	92.51	0.42	1.15978
482.348	487	4.4795	32.362991	34.0151	4.4431	26.9563	26.9524	92.51	0.42	1.15605
483.337	488	4.4655	32.353333	34.0177	4.4291	26.9599	26.956	92.51	0.42	1.15338
484.326	489	4.4598	32.351238	34.0206	4.4233	26.9628	26.9589	92.51	0.42	1.14374

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
485.316	490	4.4585	32.354023	34.0246	4.422	26.9661	26.9622	92.44	0.42	1.14354
486.305	491	4.4568	32.353642	34.0255	4.4202	26.967	26.963	92.52	0.42	1.13567
487.294	492	4.4544	32.352879	34.0265	4.4177	26.9681	26.9642	92.52	0.42	1.12655
488.283	493	4.4504	32.351143	34.0281	4.4136	26.9698	26.9658	92.54	0.42	1.11543
489.273	494	4.4472	32.349541	34.029	4.4104	26.9708	26.9669	92.56	0.42	1.08989
490.262	495	4.443	32.346775	34.0295	4.4061	26.9717	26.9677	92.54	0.42	1.0543
491.251	496	4.4409	32.345783	34.03	4.404	26.9723	26.9684	92.54	0.42	1.02192
492.24	497	4.4394	32.345436	34.0306	4.4024	26.973	26.969	92.52	0.42	1.0031
493.23	498	4.4362	32.344776	34.0326	4.3991	26.9749	26.9709	92.55	0.42	0.99699
494.219	499	4.4352	32.344704	34.0331	4.3981	26.9754	26.9714	92.56	0.42	0.99388
495.208	500	4.4335	32.344036	34.0336	4.3962	26.976	26.972	92.55	0.42	0.99052
496.197	501	4.4299	32.342003	34.0343	4.3926	26.9769	26.9729	92.56	0.42	0.98755
497.187	502	4.4256	32.339741	34.0356	4.3882	26.9785	26.9745	92.55	0.42	0.98315
498.176	503	4.4245	32.340378	34.0369	4.3871	26.9796	26.9756	92.56	0.42	0.97462
499.165	504	4.4218	32.339405	34.038	4.3843	26.9808	26.9768	92.56	0.42	0.96991
500.154	505	4.419	32.337975	34.0388	4.3814	26.9817	26.9777	92.56	0.42	0.96809
501.143	506	4.4174	32.337936	34.0398	4.3798	26.9827	26.9787	92.56	0.42	0.95745
502.133	507	4.4173	32.338795	34.0405	4.3795	26.9833	26.9792	92.56	0.42	0.94141
503.122	508	4.4156	32.338188	34.041	4.3778	26.9839	26.9798	92.55	0.42	0.9281
504.111	509	4.4133	32.337605	34.0422	4.3754	26.985	26.981	92.56	0.42	0.92136
505.1	510	4.4124	32.337753	34.0427	4.3745	26.9856	26.9815	92.56	0.42	0.92099
506.089	511	4.4104	32.337009	34.0434	4.3724	26.9863	26.9822	92.56	0.42	0.91689
507.078	512	4.4082	32.335934	34.0439	4.3701	26.9869	26.9829	92.56	0.42	0.91316
508.068	513	4.4052	32.334385	34.0447	4.367	26.988	26.9839	92.56	0.42	0.91009
509.057	514	4.401	32.331959	34.0456	4.3628	26.9891	26.985	92.56	0.42	0.90414
510.046	515	4.3976	32.32954	34.0457	4.3593	26.9896	26.9855	92.56	0.42	0.89928
511.035	516	4.3886	32.324272	34.0484	4.3502	26.9927	26.9886	92.56	0.42	0.89504
512.024	517	4.3843	32.321445	34.0489	4.3459	26.9935	26.9894	92.56	0.42	0.88488
513.013	518	4.3807	32.318722	34.0489	4.3423	26.994	26.9899	92.56	0.42	0.87931
514.003	519	4.3793	32.318638	34.0498	4.3407	26.9948	26.9907	92.56	0.42	0.86681
514.992	520	4.3789	32.319427	34.0506	4.3403	26.9955	26.9914	92.56	0.42	0.86
515.981	521	4.377	32.318905	34.0514	4.3384	26.9963	26.9922	92.55	0.42	0.85478
516.97	522	4.3756	32.318409	34.0518	4.3368	26.9968	26.9927	92.56	0.42	0.85309
517.959	523	4.3747	32.318336	34.0521	4.3359	26.9971	26.993	92.56	0.42	0.85413
518.948	524	4.3743	32.31852	34.0522	4.3354	26.9973	26.9932	92.57	0.42	0.85329
519.937	525	4.3716	32.316898	34.0526	4.3326	26.9979	26.9937	92.56	0.42	0.84712
520.926	526	4.3657	32.31366	34.0543	4.3267	26.9999	26.9958	92.56	0.42	0.83831
521.915	527	4.3638	32.313309	34.0554	4.3247	27.0009	26.9968	92.56	0.42	0.83278
522.905	528	4.3637	32.313599	34.0553	4.3245	27.0009	26.9968	92.57	0.42	0.82393
523.894	529	4.365	32.316837	34.0572	4.3258	27.0023	26.9981	92.57	0.42	0.81891
524.883	530	4.3673	32.321857	34.0602	4.328	27.0045	27.0003	92.57	0.42	0.81308
525.872	531	4.3679	32.325333	34.0631	4.3285	27.0067	27.0025	92.58	0.42	0.80564
526.861	532	4.3662	32.325184	34.0642	4.3267	27.0077	27.0035	92.57	0.42	0.8031
527.85	533	4.3597	32.321209	34.0657	4.3202	27.0096	27.0054	92.57	0.42	0.80452

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
528.839	534	4.3552	32.319309	34.0676	4.3156	27.0117	27.0074	92.57	0.42	0.79498
529.828	535	4.3527	32.318287	34.0685	4.3131	27.0126	27.0084	92.57	0.42	0.77401
530.817	536	4.3486	32.315556	34.069	4.3088	27.0135	27.0093	92.58	0.42	0.75688
531.806	537	4.3452	32.313549	34.0696	4.3054	27.0143	27.0101	92.58	0.42	0.74625
532.795	538	4.3437	32.31435	34.0716	4.3038	27.0161	27.0118	92.57	0.42	0.73422
533.784	539	4.3436	32.315163	34.0722	4.3036	27.0165	27.0123	92.58	0.42	0.72256
534.773	540	4.3438	32.316284	34.0728	4.3037	27.017	27.0127	92.58	0.42	0.71509
535.762	541	4.3436	32.31707	34.0733	4.3035	27.0175	27.0132	92.58	0.42	0.70936
536.751	542	4.3425	32.317009	34.0739	4.3023	27.0181	27.0138	92.54	0.42	0.70424
537.74	543	4.3306	32.307415	34.0744	4.2903	27.0197	27.0155	92.5	0.42	0.70134
538.729	544	4.3273	32.305748	34.0753	4.287	27.0208	27.0165	92.58	0.42	0.70221
539.719	545	4.3263	32.306328	34.0765	4.286	27.0218	27.0176	92.57	0.42	0.70067
540.708	546	4.3268	32.307453	34.0768	4.2864	27.022	27.0177	92.58	0.42	0.69442
541.696	547	4.3264	32.307705	34.077	4.2859	27.0222	27.0179	92.58	0.42	0.69107
542.685	548	4.324	32.306805	34.078	4.2834	27.0233	27.019	92.6	0.42	0.68238
543.674	549	4.3165	32.301403	34.0788	4.2759	27.0247	27.0204	92.59	0.42	0.67641
544.663	550	4.3088	32.295979	34.0799	4.2681	27.0264	27.0221	92.58	0.42	0.67415
545.652	551	4.3042	32.292965	34.0806	4.2635	27.0274	27.0231	92.58	0.42	0.67198
546.641	552	4.3	32.29026	34.0812	4.2592	27.0284	27.0241	92.6	0.42	0.66989
547.63	553	4.2976	32.289158	34.0818	4.2568	27.0291	27.0248	92.59	0.42	0.66548
548.619	554	4.297	32.289101	34.0819	4.2561	27.0293	27.0249	92.59	0.42	0.65828
549.608	555	4.2945	32.288017	34.0827	4.2535	27.0302	27.0259	92.6	0.42	0.65518
550.597	556	4.2906	32.285637	34.0834	4.2495	27.0312	27.0268	92.57	0.42	0.65076
551.586	557	4.286	32.283409	34.085	4.2449	27.0329	27.0286	92.56	0.42	0.64763
552.575	558	4.2802	32.27972	34.0861	4.239	27.0344	27.0301	92.59	0.42	0.6455
553.564	559	4.2721	32.273525	34.0867	4.2309	27.0358	27.0314	92.6	0.42	0.64196
554.553	560	4.2636	32.266449	34.0866	4.2224	27.0366	27.0322	92.58	0.42	0.63911
555.542	561	4.2534	32.257656	34.0863	4.2121	27.0374	27.0331	92.58	0.42	0.63411
556.531	562	4.249	32.253979	34.086	4.2076	27.0377	27.0333	92.59	0.42	0.62857
557.52	563	4.2479	32.253998	34.0867	4.2065	27.0383	27.034	92.58	0.42	0.6261
558.509	564	4.2504	32.257385	34.0876	4.2089	27.0388	27.0344	92.58	0.42	0.62558
559.498	565	4.2531	32.261116	34.0887	4.2114	27.0394	27.035	92.59	0.42	0.63991
560.487	566	4.2545	32.263954	34.09	4.2128	27.0403	27.0359	92.6	0.42	0.6402
561.476	567	4.2484	32.260101	34.0913	4.2066	27.0419	27.0376	92.61	0.42	0.64076
562.464	568	4.2448	32.257912	34.092	4.2029	27.0429	27.0385	92.61	0.42	0.64099
563.453	569	4.2387	32.253555	34.0926	4.1968	27.044	27.0396	92.61	0.42	0.63602
564.442	570	4.23	32.246681	34.093	4.1881	27.0452	27.0408	92.61	0.42	0.62723
565.431	571	4.2255	32.243504	34.0933	4.1836	27.046	27.0416	92.59	0.42	0.62052
566.42	572	4.2226	32.241901	34.094	4.1806	27.0468	27.0424	92.6	0.42	0.60679
567.409	573	4.2168	32.237549	34.0943	4.1747	27.0477	27.0433	92.6	0.42	0.5969
568.398	574	4.1976	32.220901	34.094	4.1556	27.0494	27.045	92.61	0.42	0.59928
569.387	575	4.1872	32.2122	34.094	4.1451	27.0506	27.0462	92.6	0.42	0.59765
570.376	576	4.1779	32.204365	34.0939	4.1358	27.0514	27.047	92.59	0.42	0.60149
571.364	577	4.1693	32.198898	34.0958	4.1272	27.0538	27.0494	92.58	0.42	0.60454

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water [m]	[db]	primary IPTS-68 [deg C]	primary [mS/cm]	PSS- 78 [PSU]	primary IPTS- 68 [deg C]	sigma- θ [kg/m^3]	sigma-t [kg/m^3]			[ml/l]
572.353	578	4.1613	32.193794	34.0975	4.1191	27.0561	27.0517	92.58	0.42	0.60468
573.342	579	4.157	32.191303	34.0986	4.1147	27.0573	27.0529	92.57	0.42	0.60509
574.331	580	4.153	32.188721	34.0992	4.1106	27.0582	27.0538	92.57	0.42	0.61003
575.32	581	4.1528	32.189701	34.0999	4.1104	27.0589	27.0545	92.58	0.42	0.61667
576.309	582	4.1536	32.19104	34.1003	4.1111	27.0591	27.0546	92.56	0.42	0.62124
577.298	583	4.1547	32.192924	34.1008	4.1121	27.0594	27.0549	92.55	0.42	0.61106
578.286	584	4.1621	32.202629	34.1041	4.1194	27.0612	27.0568	92.57	0.42	0.6078
579.275	585	4.171	32.213367	34.107	4.1282	27.0626	27.0582	92.58	0.42	0.60551
580.264	586	4.1695	32.212704	34.1072	4.1267	27.0629	27.0585	92.6	0.42	0.60006
581.253	587	4.168	32.211658	34.107	4.1251	27.063	27.0585	92.59	0.42	0.59604
582.242	588	4.164	32.209003	34.1075	4.121	27.0638	27.0593	92.6	0.42	0.58291
583.23	589	4.1708	32.218678	34.1114	4.1277	27.0662	27.0617	92.62	0.42	0.56785
584.219	590	4.165	32.215195	34.1127	4.1218	27.0679	27.0634	92.61	0.42	0.55601
585.208	591	4.1558	32.208149	34.1135	4.1125	27.0694	27.0649	92.6	0.42	0.54961
586.197	592	4.1524	32.20565	34.1135	4.1092	27.0698	27.0653	92.6	0.42	0.54964
587.186	593	4.1489	32.203136	34.1137	4.1055	27.0703	27.0658	92.59	0.42	0.5324
588.174	594	4.1448	32.200287	34.114	4.1014	27.071	27.0665	92.58	0.42	0.5194
589.163	595	4.1462	32.202606	34.1148	4.1027	27.0714	27.0669	92.6	0.42	0.52129
590.152	596	4.146	32.204277	34.1165	4.1024	27.0729	27.0683	92.49	0.42	0.52601
591.141	597	4.1504	32.211342	34.1197	4.1068	27.0749	27.0704	92.61	0.42	0.52589
592.129	598	4.1497	32.213062	34.122	4.1059	27.0768	27.0723	92.57	0.42	0.52271
593.118	599	4.145	32.209187	34.1217	4.1012	27.0771	27.0726	92.6	0.42	0.52268
594.107	600	4.141	32.20647	34.1222	4.0971	27.0779	27.0734	92.59	0.42	0.52002
595.096	601	4.1506	32.21722	34.1244	4.1066	27.0787	27.0741	92.6	0.42	0.51357
596.084	602	4.145	32.213326	34.125	4.101	27.0798	27.0752	92.61	0.42	0.50058
597.073	603	4.1514	32.221577	34.1276	4.1072	27.0812	27.0766	92.37	0.42	0.48386
598.062	604	4.155	32.226318	34.129	4.1108	27.0819	27.0773	92.56	0.42	0.47497
599.051	605	4.1572	32.230228	34.1308	4.1128	27.0832	27.0785	92.59	0.42	0.46608
600.039	606	4.1601	32.234943	34.1328	4.1157	27.0845	27.0798	92.6	0.42	0.45949
601.028	607	4.16	32.236046	34.1337	4.1155	27.0852	27.0805	92.6	0.42	0.4509
602.017	608	4.1613	32.238094	34.1343	4.1167	27.0855	27.0809	92.6	0.42	0.44385
603.006	609	4.1647	32.242825	34.1358	4.12	27.0864	27.0818	92.6	0.42	0.43784
603.994	610	4.1674	32.247074	34.1375	4.1226	27.0875	27.0828	92.62	0.42	0.4326
604.983	611	4.154	32.23497	34.1366	4.1092	27.0881	27.0835	92.57	0.42	0.4319
605.972	612	4.1431	32.225403	34.136	4.0983	27.0888	27.0842	92.58	0.42	0.43027
606.96	613	4.134	32.217869	34.1361	4.0891	27.0899	27.0852	92.59	0.42	0.42619
607.949	614	4.1306	32.216755	34.1377	4.0857	27.0915	27.0868	92.59	0.42	0.41942
608.938	615	4.1208	32.208996	34.1383	4.0758	27.0929	27.0883	92.58	0.42	0.41506
609.926	616	4.1137	32.20377	34.139	4.0687	27.0943	27.0896	92.6	0.42	0.41438
610.915	617	4.1134	32.204018	34.139	4.0683	27.0943	27.0896	92.62	0.42	0.41288
611.904	618	4.1099	32.201759	34.1394	4.0648	27.095	27.0903	92.61	0.43	0.41503
612.892	619	4.1094	32.202599	34.1405	4.0642	27.0959	27.0912	92.61	0.42	0.41501
613.881	620	4.1032	32.198185	34.1411	4.058	27.0971	27.0924	92.58	0.42	0.41069
614.87	621	4.0993	32.195358	34.1414	4.054	27.0976	27.093	92.58	0.42	0.41043

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m ³]	[kg/m ³]			[ml/l]
615.858	622	4.0699	32.166622	34.1374	4.0246	27.0976	27.0929	92.59	0.42	0.40729
616.847	623	4.062	32.159981	34.1372	4.0168	27.0982	27.0935	92.58	0.42	0.41164
617.836	624	4.0603	32.159355	34.1377	4.015	27.0988	27.0941	92.58	0.42	0.40858
618.824	625	4.0607	32.161789	34.1397	4.0153	27.1003	27.0956	92.58	0.42	0.40547
619.813	626	4.0623	32.165054	34.1413	4.0168	27.1015	27.0968	92.54	0.42	0.42292
620.802	627	4.0641	32.167583	34.142	4.0185	27.1018	27.0971	92.58	0.42	0.43211
621.79	628	4.0664	32.17123	34.1433	4.0207	27.1027	27.0979	92.57	0.42	0.42936
622.779	629	4.0737	32.180759	34.1465	4.0279	27.1044	27.0997	92.56	0.42	0.42478
623.767	630	4.0764	32.183945	34.1469	4.0305	27.1045	27.0998	92.57	0.43	0.42255
624.756	631	4.0816	32.190319	34.1486	4.0356	27.1053	27.1005	92.58	0.43	0.42226
625.745	632	4.0835	32.192627	34.1488	4.0374	27.1053	27.1005	92.6	0.43	0.41542
626.733	633	4.0825	32.192059	34.1487	4.0363	27.1053	27.1006	92.6	0.42	0.40852
627.722	634	4.0803	32.19128	34.1495	4.0341	27.1062	27.1014	92.59	0.43	0.39159
628.71	635	4.0766	32.189156	34.1503	4.0303	27.1072	27.1024	92.6	0.43	0.38397
629.699	636	4.0734	32.187523	34.1512	4.027	27.1083	27.1035	92.53	0.43	0.37798
630.688	637	4.0725	32.187366	34.1515	4.026	27.1086	27.1038	92.57	0.43	0.37659
631.676	638	4.0709	32.186699	34.1518	4.0244	27.109	27.1042	92.58	0.43	0.37365
632.665	639	4.072	32.189087	34.1529	4.0254	27.1098	27.105	92.59	0.43	0.37446
633.653	640	4.0724	32.191162	34.1544	4.0258	27.111	27.1061	92.6	0.43	0.36848
634.642	641	4.0713	32.191551	34.1556	4.0245	27.112	27.1072	92.59	0.43	0.36799
635.63	642	4.0752	32.196423	34.1568	4.0283	27.1125	27.1077	92.59	0.43	0.3678
636.619	643	4.0646	32.187645	34.1568	4.0177	27.1137	27.1089	92.59	0.43	0.36464
637.607	644	4.0619	32.186485	34.1578	4.0149	27.1148	27.1099	92.59	0.43	0.36501
638.596	645	4.0569	32.182617	34.1579	4.0099	27.1153	27.1105	92.6	0.43	0.3606
639.585	646	4.0505	32.177746	34.1583	4.0035	27.1163	27.1114	92.59	0.43	0.35385
640.573	647	4.0498	32.178257	34.159	4.0027	27.117	27.1121	92.59	0.43	0.34829
641.562	648	4.0495	32.178997	34.1598	4.0023	27.1176	27.1128	92.59	0.43	0.34768
642.55	649	4.0508	32.182274	34.1617	4.0035	27.119	27.1142	92.59	0.43	0.34591
643.539	650	4.0502	32.18256	34.1621	4.0029	27.1194	27.1146	92.58	0.43	0.34548
644.527	651	4.0511	32.184174	34.1626	4.0037	27.1197	27.1149	92.58	0.43	0.34218
645.516	652	4.0507	32.184311	34.1627	4.0032	27.1199	27.115	92.59	0.43	0.34422
646.504	653	4.0469	32.181736	34.1631	3.9993	27.1206	27.1157	92.59	0.43	0.3372
647.493	654	4.0393	32.176193	34.1639	3.9917	27.122	27.1171	92.58	0.43	0.3343
648.481	655	4.0352	32.174179	34.1652	3.9876	27.1235	27.1186	92.58	0.43	0.33236
649.47	656	4.0357	32.177135	34.1677	3.9879	27.1254	27.1205	92.59	0.43	0.32916
650.458	657	4.0407	32.1833	34.1693	3.9928	27.1262	27.1213	92.59	0.43	0.33237
651.447	658	4.0453	32.188828	34.1705	3.9974	27.1267	27.1217	92.58	0.43	0.32552
652.435	659	4.0543	32.199497	34.1733	4.0062	27.1279	27.123	92.58	0.43	0.32486
653.424	660	4.0623	32.208302	34.1749	4.0141	27.1284	27.1234	92.58	0.43	0.32416
654.412	661	4.0729	32.219978	34.1771	4.0246	27.1291	27.1241	92.58	0.43	0.31967
655.401	662	4.0811	32.230907	34.181	4.0327	27.1314	27.1263	92.57	0.43	0.31428
656.389	663	4.0919	32.244225	34.185	4.0433	27.1335	27.1284	92.57	0.43	0.30924
657.377	664	4.0922	32.245525	34.1857	4.0435	27.134	27.129	92.57	0.43	0.30214
658.366	665	4.0962	32.250565	34.187	4.0474	27.1346	27.1296	92.57	0.43	0.29591

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
659.354	666	4.1022	32.257523	34.1885	4.0533	27.1352	27.1301	92.57	0.43	0.28698
660.343	667	4.1034	32.259216	34.1887	4.0544	27.1352	27.1302	92.58	0.43	0.28034
661.331	668	4.1184	32.27705	34.1937	4.0692	27.1377	27.1326	92.58	0.43	0.2751
662.32	669	4.1634	32.326038	34.2042	4.1139	27.1414	27.1362	92.57	0.43	0.27288
663.308	670	4.1859	32.3508	34.2095	4.1363	27.1433	27.1381	92.54	0.43	0.26913
664.296	671	4.1789	32.345257	34.2097	4.1292	27.1442	27.139	92.55	0.43	0.26564
665.285	672	4.1646	32.331966	34.2083	4.1149	27.1446	27.1394	92.56	0.43	0.25199
666.273	673	4.1629	32.330616	34.208	4.1132	27.1445	27.1393	92.55	0.43	0.2331
667.262	674	4.1635	32.331856	34.2084	4.1136	27.1448	27.1396	92.55	0.43	0.225
668.25	675	4.1645	32.333546	34.2088	4.1145	27.145	27.1398	92.56	0.43	0.22229
669.238	676	4.1628	32.332054	34.2083	4.1127	27.1448	27.1396	92.56	0.43	0.22313
670.227	677	4.157	32.326645	34.2074	4.1069	27.1447	27.1395	92.56	0.43	0.22456
671.215	678	4.1253	32.295662	34.2033	4.0753	27.1447	27.1395	92.56	0.43	0.22493
672.204	679	4.1091	32.280571	34.2018	4.0591	27.1452	27.14	92.56	0.43	0.22543
673.192	680	4.0804	32.253101	34.1987	4.0305	27.1456	27.1405	92.56	0.43	0.22358
674.18	681	4.0551	32.229111	34.1961	4.0053	27.1462	27.141	92.56	0.43	0.22144
675.169	682	4.0525	32.228916	34.198	4.0026	27.148	27.1429	92.56	0.43	0.22718
676.157	683	4.0582	32.236408	34.2004	4.0082	27.1493	27.1442	92.56	0.43	0.23702
677.145	684	4.0653	32.245049	34.2028	4.0151	27.1505	27.1453	92.56	0.43	0.24572
678.134	685	4.0941	32.276512	34.2095	4.0437	27.1529	27.1477	92.56	0.43	0.24722
679.122	686	4.0927	32.275944	34.2097	4.0423	27.1532	27.148	92.56	0.43	0.24706
680.111	687	4.1022	32.287979	34.2136	4.0516	27.1553	27.1501	92.56	0.43	0.24196
681.099	688	4.1178	32.305439	34.2175	4.067	27.1568	27.1516	92.56	0.43	0.24026
682.087	689	4.1298	32.318489	34.2198	4.0789	27.1574	27.1522	92.55	0.43	0.22991
683.076	690	4.1351	32.324554	34.221	4.0841	27.1579	27.1525	92.56	0.43	0.22006
684.064	691	4.1386	32.32869	34.2217	4.0875	27.1581	27.1528	92.56	0.43	0.21352
685.052	692	4.1394	32.330341	34.2223	4.0882	27.1585	27.1531	92.56	0.43	0.20342
686.04	693	4.1298	32.322624	34.2226	4.0786	27.1597	27.1544	92.56	0.43	0.19804
687.029	694	4.1276	32.321972	34.2236	4.0764	27.1607	27.1554	92.54	0.43	0.19605
688.017	695	4.1193	32.315155	34.2237	4.068	27.1617	27.1563	92.56	0.43	0.19361
689.005	696	4.1147	32.311382	34.2236	4.0633	27.1621	27.1567	92.56	0.43	0.19498
689.994	697	4.1138	32.311398	34.224	4.0623	27.1625	27.1572	92.55	0.43	0.19283
690.982	698	4.1157	32.31406	34.2246	4.0641	27.1628	27.1575	92.54	0.43	0.18989
691.97	699	4.1096	32.309303	34.2248	4.0581	27.1636	27.1582	92.55	0.43	0.19157
692.959	700	4.105	32.305943	34.2251	4.0534	27.1644	27.159	92.55	0.43	0.18739
693.947	701	4.1096	32.31181	34.2267	4.0579	27.1652	27.1598	92.56	0.43	0.18614
694.935	702	4.1095	32.312683	34.2274	4.0576	27.1657	27.1603	92.53	0.43	0.19066
695.923	703	4.1101	32.314297	34.2281	4.0582	27.1662	27.1608	92.55	0.43	0.18932
696.912	704	4.11	32.314796	34.2283	4.058	27.1664	27.161	92.56	0.43	0.18563
697.9	705	4.1083	32.313694	34.2283	4.0562	27.1666	27.1612	92.56	0.43	0.1815
698.888	706	4.0988	32.305241	34.2277	4.0467	27.1671	27.1617	92.56	0.43	0.18293
699.876	707	4.0838	32.292171	34.2273	4.0318	27.1683	27.1629	92.55	0.43	0.18586
700.865	708	4.0774	32.287045	34.2274	4.0252	27.1691	27.1637	92.56	0.43	0.18401
701.853	709	4.0784	32.289997	34.2293	4.0262	27.1704	27.165	92.56	0.43	0.17724

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
702.841	710	4.0908	32.305138	34.2337	4.0385	27.1727	27.1673	92.55	0.43	0.18104
703.829	711	4.0906	32.306614	34.2352	4.0381	27.1739	27.1685	92.55	0.43	0.1822
704.818	712	4.0875	32.304737	34.2357	4.035	27.1746	27.1692	92.56	0.43	0.18226
705.806	713	4.082	32.300049	34.2354	4.0295	27.1749	27.1695	92.56	0.43	0.18233
706.794	714	4.0662	32.285793	34.2344	4.0137	27.1758	27.1704	92.54	0.43	0.17685
707.782	715	4.0683	32.291416	34.2384	4.0156	27.1788	27.1734	92.45	0.43	0.17156
708.77	716	4.0808	32.305481	34.2414	4.028	27.1799	27.1745	92.54	0.43	0.17112
709.759	717	4.0827	32.309196	34.2433	4.0299	27.1812	27.1758	92.55	0.43	0.16832
710.747	718	4.0822	32.310196	34.2445	4.0292	27.1823	27.1768	92.54	0.43	0.16803
711.735	719	4.0806	32.309818	34.2453	4.0275	27.183	27.1776	92.55	0.43	0.16225
712.723	720	4.0819	32.312462	34.2465	4.0288	27.1839	27.1784	92.54	0.43	0.16366
713.711	721	4.0819	32.313271	34.2469	4.0287	27.1842	27.1787	92.55	0.43	0.15839
714.7	722	4.082	32.314381	34.2476	4.0287	27.1848	27.1793	92.55	0.43	0.15542
715.688	723	4.0814	32.314693	34.2481	4.0281	27.1852	27.1797	92.55	0.43	0.15346
716.676	724	4.0794	32.313488	34.2483	4.0259	27.1856	27.1801	92.55	0.43	0.15548
717.664	725	4.0749	32.310562	34.2489	4.0215	27.1866	27.181	92.54	0.43	0.15005
718.652	726	4.073	32.309349	34.249	4.0195	27.1868	27.1813	92.54	0.43	0.14914
719.64	727	4.0719	32.309269	34.2495	4.0183	27.1874	27.1818	92.55	0.43	0.15406
720.629	728	4.0693	32.30814	34.2503	4.0156	27.1883	27.1827	92.54	0.43	0.14894
721.617	729	4.0694	32.309155	34.2509	4.0157	27.1887	27.1832	92.55	0.43	0.14553
722.605	730	4.0678	32.308952	34.2519	4.0139	27.1897	27.1841	92.55	0.43	0.14934
723.593	731	4.0661	32.308327	34.2524	4.0122	27.1903	27.1847	92.55	0.43	0.15063
724.581	732	4.0633	32.306625	34.2528	4.0093	27.1909	27.1853	92.55	0.43	0.15069
725.569	733	4.0591	32.304638	34.2543	4.005	27.1925	27.187	92.55	0.43	0.15074
726.557	734	4.0591	32.305782	34.2551	4.005	27.1932	27.1876	92.53	0.43	0.14445
727.545	735	4.06	32.307327	34.2555	4.0058	27.1934	27.1878	92.54	0.43	0.13566
728.534	736	4.0585	32.306915	34.256	4.0043	27.194	27.1884	92.54	0.43	0.13966
729.522	737	4.0578	32.306973	34.2563	4.0035	27.1943	27.1887	92.54	0.43	0.13932
730.51	738	4.0547	32.304375	34.256	4.0003	27.1943	27.1887	92.54	0.43	0.14059
731.498	739	4.0542	32.305351	34.2571	3.9997	27.1953	27.1897	92.54	0.43	0.14165
732.486	740	4.0529	32.304893	34.2574	3.9983	27.1957	27.1901	92.54	0.43	0.14171
733.474	741	4.0428	32.295963	34.2568	3.9883	27.1963	27.1906	92.54	0.43	0.14178
734.462	742	4.0404	32.294346	34.257	3.9857	27.1966	27.191	92.54	0.43	0.14109
735.45	743	4.0352	32.289959	34.2567	3.9805	27.1969	27.1913	92.55	0.43	0.13766
736.438	744	4.0281	32.284237	34.2567	3.9734	27.1977	27.1921	92.54	0.43	0.13876
737.426	745	4.0309	32.287739	34.2575	3.9761	27.198	27.1924	92.54	0.43	0.13709
738.414	746	4.0328	32.290295	34.258	3.9779	27.1983	27.1926	92.53	0.43	0.13828
739.403	747	4.0314	32.289944	34.2585	3.9764	27.1988	27.1932	92.54	0.43	0.13583
740.391	748	4.0296	32.288685	34.2584	3.9745	27.199	27.1933	92.53	0.43	0.13786
741.379	749	4.022	32.281696	34.2576	3.9669	27.1991	27.1934	92.54	0.43	0.1382
742.367	750	4.0116	32.272949	34.2575	3.9565	27.2	27.1944	92.54	0.43	0.13698
743.355	751	4.0305	32.294258	34.2625	3.9752	27.2021	27.1964	92.53	0.43	0.13702
744.343	752	4.0465	32.311241	34.2654	3.991	27.2028	27.1971	92.52	0.43	0.13729
745.331	753	4.0476	32.313156	34.266	3.9921	27.2032	27.1974	92.52	0.43	0.1375

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
746.319	754	4.0475	32.314034	34.2667	3.9918	27.2037	27.198	92.53	0.43	0.13753
747.307	755	4.0469	32.314182	34.2669	3.9912	27.204	27.1982	92.53	0.43	0.13759
748.295	756	4.0441	32.311863	34.2666	3.9883	27.204	27.1983	92.52	0.43	0.13172
749.283	757	4.0435	32.312252	34.2672	3.9876	27.2046	27.1988	92.53	0.43	0.12666
750.271	758	4.0393	32.309204	34.2674	3.9834	27.2052	27.1994	92.52	0.43	0.12998
751.259	759	4.0262	32.298203	34.2675	3.9703	27.2066	27.2008	92.53	0.43	0.1263
752.247	760	4.022	32.294899	34.2674	3.9661	27.207	27.2012	92.53	0.43	0.12336
753.235	761	4.0209	32.294449	34.2676	3.9649	27.2072	27.2014	92.54	0.43	0.12684
754.223	762	4.0195	32.293922	34.2679	3.9634	27.2076	27.2018	92.53	0.43	0.127
755.211	763	4.0173	32.293228	34.2688	3.9611	27.2086	27.2028	92.52	0.43	0.12603
756.199	764	4.0142	32.291004	34.2689	3.958	27.209	27.2032	92.52	0.43	0.12611
757.187	765	4.0033	32.281555	34.2685	3.9471	27.2098	27.204	92.53	0.43	0.12427
758.175	766	3.995	32.27504	34.269	3.9387	27.211	27.2052	92.54	0.43	0.12647
759.163	767	3.996	32.277184	34.2699	3.9397	27.2117	27.2059	92.54	0.43	0.12595
760.151	768	3.9931	32.276085	34.2712	3.9367	27.213	27.2072	92.54	0.43	0.1208
761.139	769	3.9973	32.281765	34.273	3.9408	27.214	27.2082	92.53	0.43	0.12159
762.127	770	3.9974	32.28286	34.2737	3.9408	27.2145	27.2087	92.52	0.43	0.12395
763.115	771	3.9953	32.28207	34.2744	3.9386	27.2154	27.2096	92.53	0.43	0.1242
764.102	772	3.9956	32.283089	34.2748	3.9389	27.2156	27.2098	92.52	0.43	0.12423
765.09	773	3.9946	32.283184	34.2754	3.9378	27.2162	27.2104	92.53	0.43	0.1235
766.078	774	3.991	32.281898	34.2771	3.9341	27.218	27.2121	92.53	0.43	0.12119
767.066	775	3.9907	32.282604	34.2778	3.9337	27.2185	27.2127	92.53	0.43	0.11866
768.054	776	3.9877	32.28054	34.278	3.9306	27.219	27.2131	92.53	0.43	0.11841
769.042	777	3.984	32.278255	34.2786	3.9269	27.2199	27.2141	92.53	0.43	0.11629
770.03	778	3.9779	32.273384	34.2786	3.9208	27.2205	27.2147	92.53	0.43	0.11778
771.018	779	3.9696	32.267075	34.2794	3.9124	27.222	27.2161	92.52	0.43	0.11914
772.006	780	3.966	32.266216	34.2816	3.9087	27.2241	27.2182	92.53	0.43	0.11971
772.994	781	3.9637	32.265171	34.2822	3.9064	27.2248	27.2189	92.52	0.43	0.11842
773.982	782	3.9633	32.266144	34.2832	3.9059	27.2257	27.2198	92.53	0.43	0.11243
774.97	783	3.9636	32.268829	34.2856	3.9061	27.2276	27.2217	92.53	0.43	0.11401
775.957	784	3.9619	32.269955	34.2882	3.9043	27.2298	27.2239	92.53	0.43	0.11394
776.945	785	3.9624	32.271442	34.2889	3.9047	27.2304	27.2245	92.53	0.43	0.11442
777.933	786	3.9603	32.270317	34.2892	3.9026	27.2308	27.2249	92.51	0.43	0.1153
778.921	787	3.9581	32.269142	34.2897	3.9003	27.2314	27.2255	92.52	0.43	0.11534
779.909	788	3.9518	32.264515	34.2902	3.894	27.2325	27.2266	92.53	0.43	0.11491
780.897	789	3.9304	32.245995	34.2901	3.8727	27.2345	27.2286	92.52	0.43	0.11004
781.885	790	3.9249	32.241592	34.29	3.8671	27.2351	27.2292	92.53	0.43	0.10574
782.872	791	3.9241	32.241245	34.29	3.8662	27.2351	27.2292	92.53	0.43	0.10879
783.86	792	3.9231	32.240902	34.2901	3.8651	27.2353	27.2294	92.53	0.43	0.10998
784.848	793	3.9222	32.240681	34.2903	3.8642	27.2356	27.2297	92.53	0.43	0.10935
785.836	794	3.9178	32.23719	34.2901	3.8598	27.2359	27.23	92.53	0.43	0.11143
786.824	795	3.9124	32.232655	34.2899	3.8543	27.2363	27.2304	92.53	0.43	0.10674
787.812	796	3.9067	32.227661	34.2894	3.8485	27.2365	27.2306	92.52	0.43	0.10606
788.8	797	3.8991	32.221054	34.2891	3.8409	27.2369	27.231	92.54	0.43	0.10955

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
789.787	798	3.892	32.21521	34.289	3.8338	27.2376	27.2317	92.53	0.43	0.10864
790.775	799	3.8769	32.20224	34.2888	3.8188	27.239	27.2331	92.54	0.43	0.10901
791.763	800	3.8696	32.196415	34.289	3.8114	27.2399	27.234	92.54	0.43	0.10875
792.751	801	3.8696	32.197578	34.2899	3.8113	27.2406	27.2347	92.54	0.43	0.11232
793.739	802	3.8673	32.196335	34.2903	3.8089	27.2412	27.2353	92.55	0.43	0.1138
794.726	803	3.865	32.195469	34.2911	3.8066	27.242	27.2361	92.55	0.43	0.11186
795.714	804	3.8594	32.191296	34.2916	3.8009	27.243	27.2371	92.55	0.43	0.11235
796.702	805	3.8602	32.193489	34.2928	3.8016	27.2439	27.238	92.55	0.43	0.11182
797.69	806	3.8599	32.194214	34.2934	3.8013	27.2444	27.2385	92.54	0.43	0.11148
798.678	807	3.86	32.195114	34.2939	3.8012	27.2448	27.2389	92.54	0.43	0.11151
799.665	808	3.8555	32.191654	34.294	3.7967	27.2453	27.2394	92.55	0.43	0.11156
800.653	809	3.8566	32.193993	34.2951	3.7978	27.2461	27.2401	92.55	0.43	0.11034
801.641	810	3.8587	32.196808	34.2957	3.7997	27.2464	27.2404	92.55	0.43	0.10921
802.629	811	3.8586	32.197357	34.296	3.7995	27.2466	27.2407	92.55	0.43	0.10819
803.616	812	3.8531	32.19416	34.2974	3.794	27.2483	27.2423	92.52	0.43	0.10606
804.604	813	3.8465	32.189812	34.2986	3.7874	27.2499	27.244	92.54	0.43	0.10652
805.592	814	3.8456	32.189491	34.2987	3.7864	27.2501	27.2441	92.54	0.43	0.10514
806.58	815	3.8396	32.184887	34.2989	3.7804	27.2509	27.2449	92.55	0.43	0.10665
807.567	816	3.8331	32.180084	34.2995	3.7738	27.252	27.246	92.55	0.43	0.10705
808.555	817	3.8319	32.179661	34.2997	3.7726	27.2523	27.2463	92.54	0.43	0.10709
809.543	818	3.8309	32.180199	34.3009	3.7715	27.2533	27.2473	92.53	0.43	0.10711
810.531	819	3.8406	32.191742	34.3039	3.781	27.2548	27.2488	92.54	0.43	0.10709
811.518	820	3.8444	32.196175	34.3047	3.7847	27.2551	27.249	92.49	0.43	0.10711
812.506	821	3.848	32.200821	34.3059	3.7883	27.2557	27.2497	92.5	0.43	0.10546
813.494	822	3.849	32.202438	34.3063	3.7892	27.2559	27.2498	92.5	0.43	0.10587
814.481	823	3.869	32.224026	34.3106	3.8089	27.2573	27.2512	92.51	0.43	0.10469
815.469	824	3.8631	32.218536	34.3097	3.803	27.2572	27.2511	92.51	0.43	0.10231
816.457	825	3.8362	32.193626	34.3076	3.7762	27.2582	27.2522	92.51	0.43	0.10332
817.444	826	3.8296	32.18829	34.3077	3.7695	27.259	27.2529	92.52	0.43	0.10249
818.432	827	3.8252	32.184746	34.3076	3.7651	27.2593	27.2533	92.51	0.43	0.10055
819.42	828	3.8182	32.17889	34.3075	3.7581	27.2599	27.2539	92.47	0.43	0.10129
820.407	829	3.8159	32.177402	34.3076	3.7557	27.2602	27.2542	92.51	0.43	0.10263
821.395	830	3.8154	32.17934	34.3099	3.7551	27.2622	27.2561	92.5	0.43	0.10264
822.383	831	3.8176	32.182274	34.3106	3.7572	27.2625	27.2564	92.51	0.43	0.10266
823.37	832	3.8124	32.178051	34.3105	3.752	27.2629	27.2569	92.3	0.43	0.1027
824.358	833	3.8141	32.181808	34.3126	3.7536	27.2645	27.2584	92.51	0.43	0.10272
825.346	834	3.8221	32.191189	34.3149	3.7614	27.2655	27.2594	92.51	0.43	0.10249
826.333	835	3.826	32.196522	34.3166	3.7652	27.2665	27.2604	92.5	0.43	0.10278
827.321	836	3.8246	32.196705	34.3178	3.7638	27.2676	27.2615	92.51	0.43	0.10304
828.309	837	3.8268	32.199963	34.3189	3.7659	27.2682	27.2621	92.51	0.43	0.10276
829.296	838	3.8301	32.20414	34.3199	3.769	27.2687	27.2626	92.5	0.43	0.10121
830.284	839	3.8342	32.20937	34.3213	3.7731	27.2694	27.2632	92.47	0.43	0.0983
831.272	840	3.8358	32.211575	34.3216	3.7746	27.2695	27.2634	92.49	0.43	0.09837
832.259	841	3.837	32.213161	34.3218	3.7757	27.2696	27.2634	92.5	0.43	0.0951

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
833.247	842	3.8376	32.214809	34.3226	3.7762	27.2702	27.264	92.51	0.43	0.0959
834.234	843	3.8305	32.209259	34.323	3.7691	27.2712	27.265	92.5	0.43	0.09806
835.222	844	3.8263	32.207005	34.3241	3.7648	27.2725	27.2663	92.51	0.43	0.09809
836.21	845	3.8229	32.205265	34.3251	3.7614	27.2736	27.2674	92.52	0.43	0.0979
837.197	846	3.8144	32.198914	34.3259	3.7529	27.2751	27.2689	92.51	0.43	0.09545
838.185	847	3.8131	32.199936	34.328	3.7514	27.2769	27.2707	92.51	0.43	0.09341
839.172	848	3.8067	32.196526	34.3301	3.745	27.2792	27.273	92.51	0.43	0.0934
840.16	849	3.803	32.194183	34.3307	3.7413	27.2801	27.2739	92.51	0.43	0.08992
841.148	850	3.7998	32.192051	34.331	3.738	27.2807	27.2745	92.51	0.43	0.09365
842.135	851	3.7978	32.19128	34.3316	3.736	27.2813	27.2751	92.5	0.43	0.0937
843.123	852	3.7938	32.188602	34.3321	3.7319	27.2822	27.276	92.52	0.43	0.09271
844.11	853	3.7905	32.186966	34.3331	3.7286	27.2832	27.277	92.52	0.43	0.09326
845.098	854	3.7874	32.185097	34.3335	3.7254	27.284	27.2777	92.5	0.43	0.09359
846.085	855	3.7836	32.18277	34.3343	3.7215	27.2849	27.2787	92.51	0.43	0.09364
847.073	856	3.7797	32.180641	34.3353	3.7176	27.2861	27.2799	92.51	0.43	0.09367
848.06	857	3.7737	32.175995	34.3356	3.7115	27.287	27.2808	92.48	0.43	0.09371
849.048	858	3.7694	32.173504	34.3366	3.7072	27.2882	27.282	92.5	0.43	0.09375
850.036	859	3.7714	32.178028	34.3394	3.7091	27.2902	27.284	92.52	0.43	0.09376
851.023	860	3.7735	32.181145	34.3404	3.7111	27.2908	27.2846	92.52	0.43	0.09377
852.011	861	3.7729	32.181427	34.3408	3.7104	27.2912	27.285	92.52	0.43	0.09379
852.998	862	3.7726	32.181988	34.3412	3.71	27.2916	27.2854	92.52	0.43	0.09382
853.986	863	3.7725	32.182419	34.3414	3.7098	27.2918	27.2855	92.52	0.43	0.09386
854.973	864	3.7711	32.181843	34.3417	3.7083	27.2921	27.2858	92.53	0.43	0.09388
855.961	865	3.7689	32.180702	34.3421	3.7061	27.2927	27.2864	92.51	0.43	0.09391
856.948	866	3.7678	32.180477	34.3424	3.7049	27.2931	27.2868	92.52	0.43	0.09394
857.936	867	3.7667	32.180237	34.3428	3.7038	27.2935	27.2872	92.51	0.43	0.09395
858.923	868	3.7655	32.179836	34.343	3.7025	27.2938	27.2875	92.53	0.43	0.09397
859.911	869	3.7663	32.181683	34.3438	3.7032	27.2944	27.2881	92.53	0.43	0.094
860.898	870	3.7653	32.181694	34.3445	3.7021	27.295	27.2887	92.51	0.43	0.09402
861.886	871	3.7632	32.180336	34.3445	3.6999	27.2952	27.2889	92.51	0.43	0.09404
862.873	872	3.7608	32.179157	34.345	3.6976	27.2959	27.2896	92.52	0.43	0.09408
863.861	873	3.7571	32.177414	34.3463	3.6938	27.2973	27.291	92.52	0.43	0.09411
864.848	874	3.7529	32.175198	34.3476	3.6895	27.2987	27.2924	92.51	0.43	0.09415
865.835	875	3.7495	32.1735	34.3487	3.686	27.2999	27.2936	92.52	0.43	0.09419
866.823	876	3.7492	32.17384	34.3488	3.6857	27.3001	27.2937	92.51	0.43	0.0942
867.81	877	3.7485	32.173622	34.3488	3.6849	27.3001	27.2938	92.51	0.43	0.09422
868.798	878	3.7462	32.172195	34.3489	3.6826	27.3005	27.2941	92.52	0.43	0.09426
869.785	879	3.7449	32.171642	34.3491	3.6812	27.3008	27.2944	92.51	0.43	0.09428
870.773	880	3.7434	32.170898	34.3493	3.6796	27.3011	27.2947	92.52	0.43	0.09431
871.76	881	3.7412	32.169559	34.3496	3.6773	27.3015	27.2952	92.52	0.43	0.09435
872.748	882	3.7347	32.164654	34.35	3.6708	27.3025	27.2961	92.53	0.43	0.09438
873.735	883	3.7299	32.161381	34.3506	3.666	27.3034	27.2971	92.52	0.43	0.09442
874.722	884	3.7275	32.159992	34.351	3.6635	27.304	27.2976	92.52	0.43	0.09445
875.71	885	3.7254	32.158947	34.3514	3.6613	27.3046	27.2982	92.52	0.43	0.09448

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
876.697	886	3.7235	32.157742	34.3514	3.6594	27.3048	27.2984	92.52	0.43	0.0945
877.685	887	3.7141	32.150631	34.3523	3.6499	27.3064	27.3	92.52	0.43	0.09455
878.672	888	3.7111	32.149136	34.3532	3.6468	27.3074	27.301	92.52	0.43	0.09459
879.659	889	3.7098	32.148399	34.3531	3.6455	27.3075	27.3011	92.52	0.43	0.09461
880.647	890	3.705	32.144711	34.3532	3.6407	27.308	27.3017	92.51	0.43	0.09466
881.634	891	3.6998	32.140774	34.3535	3.6354	27.3088	27.3024	92.52	0.43	0.09469
882.622	892	3.6981	32.139778	34.3536	3.6336	27.309	27.3026	92.52	0.43	0.09472
883.609	893	3.6969	32.139153	34.3536	3.6323	27.3092	27.3028	92.52	0.43	0.09476
884.596	894	3.6952	32.138172	34.3537	3.6306	27.3094	27.303	92.52	0.43	0.09477
885.584	895	3.693	32.136898	34.354	3.6283	27.3098	27.3034	92.52	0.43	0.0948
886.571	896	3.691	32.135876	34.3542	3.6263	27.3103	27.3039	92.52	0.43	0.09484
887.558	897	3.6875	32.133686	34.3548	3.6228	27.3111	27.3046	92.52	0.43	0.09487
888.546	898	3.686	32.132961	34.3551	3.6211	27.3114	27.305	92.52	0.43	0.09489
889.533	899	3.6849	32.132488	34.3551	3.62	27.3116	27.3052	92.51	0.43	0.09492
890.52	900	3.6822	32.130878	34.3555	3.6172	27.3121	27.3057	92.52	0.43	0.09496
891.508	901	3.6794	32.129044	34.3557	3.6143	27.3126	27.3062	92.53	0.43	0.095
892.495	902	3.6779	32.128185	34.3558	3.6128	27.3128	27.3064	92.52	0.43	0.09502
893.482	903	3.673	32.125015	34.3566	3.6078	27.314	27.3076	92.52	0.43	0.09507
894.47	904	3.6724	32.125233	34.357	3.6072	27.3143	27.3079	92.53	0.43	0.09508
895.457	905	3.6731	32.126923	34.3577	3.6078	27.3149	27.3084	92.52	0.43	0.0951
896.444	906	3.6723	32.126732	34.3579	3.6069	27.3151	27.3086	92.52	0.43	0.09512
897.432	907	3.6665	32.122124	34.3579	3.6011	27.3157	27.3092	92.52	0.43	0.09517
898.419	908	3.6616	32.118252	34.3579	3.5962	27.3161	27.3097	92.52	0.43	0.0952
899.406	909	3.6614	32.118523	34.3579	3.5958	27.3162	27.3097	92.53	0.43	0.09522
900.394	910	3.6571	32.115025	34.3578	3.5915	27.3165	27.31	92.53	0.43	0.09526
901.381	911	3.6524	32.111908	34.3584	3.5868	27.3175	27.311	92.53	0.43	0.0953
902.368	912	3.6539	32.114292	34.3593	3.5881	27.318	27.3115	92.52	0.43	0.09532
903.355	913	3.6534	32.114574	34.3595	3.5876	27.3183	27.3118	92.52	0.43	0.09534
904.343	914	3.6488	32.111137	34.3601	3.5829	27.3192	27.3127	92.51	0.43	0.09537
905.33	915	3.6454	32.108906	34.3602	3.5795	27.3196	27.3131	92.52	0.43	0.09542
906.317	916	3.6446	32.108673	34.3602	3.5786	27.3197	27.3132	92.53	0.43	0.09544
907.305	917	3.6414	32.106094	34.36	3.5753	27.3199	27.3134	92.53	0.43	0.09547
908.292	918	3.636	32.102356	34.3607	3.5699	27.321	27.3145	92.53	0.43	0.0955
909.279	919	3.6354	32.102314	34.3607	3.5692	27.3211	27.3146	92.53	0.43	0.09553
910.266	920	3.6353	32.102932	34.361	3.5691	27.3213	27.3148	92.51	0.43	0.09555
911.254	921	3.6346	32.102699	34.361	3.5683	27.3214	27.3148	92.52	0.43	0.09645
912.241	922	3.6321	32.101208	34.3614	3.5657	27.3219	27.3154	92.54	0.43	0.09718
913.228	923	3.6275	32.09753	34.3612	3.5611	27.3223	27.3157	92.52	0.43	0.09803
914.215	924	3.6202	32.091293	34.361	3.5537	27.3228	27.3162	92.52	0.43	0.09589
915.202	925	3.6138	32.085938	34.3607	3.5474	27.3232	27.3167	92.53	0.43	0.09386
916.19	926	3.6094	32.083324	34.3617	3.5429	27.3244	27.3179	92.53	0.43	0.09862
917.177	927	3.6097	32.085049	34.3629	3.5431	27.3254	27.3188	92.49	0.43	0.09873
918.164	928	3.606	32.082848	34.3637	3.5393	27.3264	27.3198	92.53	0.43	0.09771
919.151	929	3.5997	32.078049	34.3641	3.533	27.3273	27.3208	92.55	0.43	0.09633

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
920.139	930	3.5961	32.075176	34.3639	3.5293	27.3275	27.321	92.54	0.43	0.09871
921.126	931	3.5955	32.075748	34.3647	3.5287	27.3282	27.3216	92.54	0.43	0.10107
922.113	932	3.5984	32.080147	34.3664	3.5315	27.3292	27.3227	92.52	0.43	0.09592
923.1	933	3.6035	32.086414	34.368	3.5364	27.3301	27.3235	92.53	0.43	0.09791
924.087	934	3.603	32.086864	34.3686	3.5359	27.3305	27.324	92.53	0.43	0.10121
925.074	935	3.5989	32.084583	34.3696	3.5317	27.3318	27.3252	92.53	0.43	0.09957
926.062	936	3.596	32.082352	34.3695	3.5287	27.332	27.3254	92.53	0.43	0.1036
927.049	937	3.5904	32.077965	34.3696	3.5231	27.3326	27.3261	92.52	0.43	0.10198
928.036	938	3.5892	32.077217	34.3695	3.5218	27.3326	27.3261	92.52	0.43	0.10118
929.023	939	3.5847	32.073948	34.3698	3.5173	27.3333	27.3268	92.53	0.43	0.10101
930.01	940	3.5854	32.076241	34.3713	3.5179	27.3345	27.3279	92.52	0.43	0.10151
930.997	941	3.5829	32.074875	34.3717	3.5153	27.3351	27.3285	92.52	0.43	0.10118
931.985	942	3.5777	32.07127	34.3724	3.5101	27.3361	27.3295	92.53	0.43	0.10121
932.972	943	3.5753	32.069786	34.3726	3.5076	27.3365	27.3299	92.53	0.43	0.10124
933.959	944	3.5725	32.06781	34.3726	3.5048	27.3368	27.3302	92.52	0.43	0.10129
934.946	945	3.5684	32.064823	34.3728	3.5007	27.3374	27.3308	92.52	0.43	0.10132
935.933	946	3.5622	32.059765	34.3728	3.4945	27.3379	27.3313	92.52	0.43	0.10136
936.92	947	3.5536	32.05254	34.3727	3.4858	27.3387	27.3321	92.52	0.43	0.10143
937.907	948	3.5523	32.052265	34.3733	3.4844	27.3393	27.3327	92.53	0.43	0.10144
938.894	949	3.5556	32.056942	34.3748	3.4876	27.3402	27.3336	92.53	0.43	0.10145
939.882	950	3.5551	32.057812	34.3759	3.4871	27.3411	27.3345	92.53	0.43	0.10149
940.869	951	3.555	32.0583	34.3761	3.4869	27.3413	27.3347	92.54	0.43	0.1018
941.856	952	3.5549	32.058781	34.3762	3.4867	27.3414	27.3348	92.52	0.43	0.10428
942.843	953	3.555	32.059868	34.3769	3.4867	27.342	27.3353	92.52	0.43	0.10402
943.83	954	3.553	32.059277	34.3778	3.4846	27.3429	27.3363	92.53	0.43	0.10505
944.817	955	3.5505	32.057682	34.378	3.4821	27.3433	27.3366	92.54	0.43	0.10593
945.804	956	3.5423	32.050846	34.3779	3.4738	27.344	27.3374	92.54	0.43	0.10778
946.791	957	3.539	32.048641	34.3783	3.4705	27.3446	27.338	92.53	0.43	0.10776
947.778	958	3.5341	32.04562	34.3793	3.4655	27.3459	27.3393	92.53	0.43	0.10817
948.765	959	3.5306	32.04364	34.38	3.462	27.3469	27.3402	92.53	0.43	0.10716
949.752	960	3.528	32.042343	34.3806	3.4594	27.3476	27.3409	92.54	0.43	0.10682
950.739	961	3.5269	32.042011	34.3809	3.4582	27.3479	27.3413	92.54	0.43	0.10685
951.727	962	3.5251	32.041233	34.3814	3.4563	27.3485	27.3418	92.53	0.43	0.10688
952.714	963	3.5244	32.041382	34.3818	3.4556	27.3489	27.3422	92.55	0.43	0.10692
953.701	964	3.5247	32.041973	34.3816	3.4558	27.3487	27.342	92.54	0.43	0.10694
954.688	965	3.5246	32.042389	34.3817	3.4556	27.3488	27.3421	92.52	0.43	0.10698
955.675	966	3.5236	32.041908	34.3817	3.4545	27.3489	27.3422	92.54	0.43	0.107
956.662	967	3.5183	32.038418	34.3826	3.4492	27.3502	27.3435	92.55	0.43	0.10703
957.649	968	3.5139	32.035835	34.3836	3.4447	27.3514	27.3447	92.55	0.43	0.10707
958.636	969	3.5133	32.036072	34.384	3.4441	27.3518	27.345	92.56	0.43	0.1071
959.623	970	3.5129	32.036282	34.3842	3.4435	27.352	27.3453	92.54	0.43	0.10713
960.61	971	3.5131	32.037315	34.3847	3.4437	27.3524	27.3456	92.55	0.43	0.10714
961.597	972	3.5129	32.038063	34.3853	3.4434	27.3529	27.3461	92.55	0.43	0.10717
962.584	973	3.5121	32.038387	34.386	3.4426	27.3535	27.3467	92.55	0.43	0.10973

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
963.571	974	3.5107	32.037685	34.3861	3.4411	27.3537	27.347	92.55	0.43	0.1117
964.558	975	3.5092	32.037018	34.3864	3.4395	27.3541	27.3473	92.54	0.43	0.11066
965.545	976	3.507	32.035728	34.3866	3.4373	27.3545	27.3477	92.53	0.43	0.11071
966.532	977	3.5037	32.033993	34.3875	3.4339	27.3555	27.3487	92.55	0.43	0.10967
967.519	978	3.5027	32.033726	34.3877	3.4328	27.3558	27.349	92.54	0.43	0.111
968.506	979	3.502	32.033539	34.3877	3.432	27.3559	27.3491	92.55	0.43	0.11225
969.493	980	3.5011	32.03339	34.3879	3.4311	27.3562	27.3494	92.55	0.43	0.11349
970.48	981	3.5004	32.033287	34.388	3.4303	27.3563	27.3495	92.55	0.43	0.11437
971.467	982	3.4984	32.032135	34.3883	3.4282	27.3567	27.3499	92.56	0.43	0.11186
972.453	983	3.4959	32.030693	34.3887	3.4256	27.3573	27.3505	92.56	0.43	0.11251
973.44	984	3.4935	32.029552	34.3894	3.4232	27.358	27.3512	92.54	0.43	0.11309
974.427	985	3.4913	32.028404	34.3898	3.4209	27.3586	27.3518	92.54	0.43	0.11263
975.414	986	3.4889	32.027008	34.39	3.4185	27.359	27.3522	92.54	0.43	0.11266
976.401	987	3.4852	32.024521	34.3904	3.4148	27.3597	27.3529	92.56	0.43	0.11269
977.388	988	3.4838	32.02383	34.3906	3.4133	27.36	27.3531	92.56	0.43	0.11273
978.375	989	3.4836	32.024094	34.3906	3.413	27.36	27.3532	92.56	0.43	0.11276
979.362	990	3.4826	32.023739	34.3907	3.4119	27.3602	27.3534	92.55	0.43	0.11278
980.349	991	3.4796	32.021595	34.3908	3.4089	27.3606	27.3537	92.56	0.43	0.11281
981.336	992	3.4782	32.021023	34.3911	3.4074	27.3609	27.3541	92.56	0.43	0.11285
982.323	993	3.4772	32.021034	34.3916	3.4064	27.3614	27.3546	92.55	0.43	0.11288
983.31	994	3.4774	32.022007	34.3921	3.4064	27.3619	27.355	92.55	0.43	0.11292
984.297	995	3.4754	32.021015	34.3925	3.4043	27.3624	27.3555	92.55	0.43	0.11295
985.284	996	3.4742	32.020535	34.3926	3.4031	27.3626	27.3557	92.54	0.43	0.11298
986.27	997	3.4725	32.019772	34.393	3.4013	27.363	27.3562	92.55	0.43	0.11389
987.257	998	3.4688	32.01701	34.393	3.3976	27.3634	27.3566	92.54	0.43	0.11379
988.244	999	3.4636	32.013565	34.3939	3.3923	27.3647	27.3578	92.55	0.43	0.11304
989.231	1000	3.4604	32.011505	34.3943	3.3891	27.3653	27.3584	92.55	0.43	0.11493
990.218	1001	3.458	32.010109	34.3946	3.3867	27.3657	27.3588	92.54	0.43	0.11511
991.205	1002	3.4568	32.009144	34.3942	3.3854	27.3655	27.3586	92.56	0.43	0.11751
992.192	1003	3.4565	32.009235	34.3941	3.385	27.3655	27.3587	92.56	0.43	0.11731
993.178	1004	3.455	32.008236	34.3939	3.3835	27.3655	27.3586	92.55	0.43	0.12197
994.165	1005	3.4542	32.007973	34.394	3.3825	27.3657	27.3588	92.55	0.43	0.12133
995.152	1006	3.4535	32.007893	34.3941	3.3818	27.3658	27.3589	92.56	0.43	0.11875
996.139	1007	3.452	32.007351	34.3946	3.3802	27.3663	27.3594	92.56	0.43	0.11842
997.126	1008	3.4501	32.006516	34.3951	3.3782	27.3669	27.36	92.55	0.43	0.11846
998.113	1009	3.4477	32.00536	34.3956	3.3758	27.3676	27.3607	92.56	0.43	0.1185
999.099	1010	3.4466	32.00478	34.3956	3.3746	27.3677	27.3607	92.56	0.43	0.11852
1000.086	1011	3.4451	32.004139	34.3959	3.373	27.3681	27.3612	92.56	0.43	0.11856
1001.073	1012	3.444	32.003857	34.3962	3.3719	27.3684	27.3615	92.56	0.43	0.11859
1002.06	1013	3.4434	32.00388	34.3964	3.3712	27.3686	27.3617	92.56	0.43	0.11862
1003.047	1014	3.4424	32.003502	34.3964	3.3702	27.3687	27.3618	92.56	0.43	0.11866
1004.034	1015	3.4382	32.000694	34.397	3.3659	27.3696	27.3627	92.55	0.43	0.1187
1005.02	1016	3.4351	31.998388	34.3969	3.3628	27.3699	27.3629	92.55	0.43	0.11873
1006.007	1017	3.4254	31.990425	34.3971	3.353	27.3709	27.364	92.55	0.43	0.11879

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1006.994	1018	3.4219	31.988098	34.3975	3.3495	27.3716	27.3647	92.56	0.43	0.11884
1007.981	1019	3.4193	31.986626	34.398	3.3468	27.3722	27.3653	92.56	0.43	0.11888
1008.968	1020	3.417	31.985695	34.3987	3.3445	27.373	27.3661	92.56	0.43	0.11891
1009.954	1021	3.4155	31.985149	34.3991	3.3429	27.3735	27.3666	92.56	0.43	0.11895
1010.941	1022	3.4139	31.984562	34.3996	3.3412	27.374	27.3671	92.55	0.43	0.11898
1011.928	1023	3.412	31.983503	34.3999	3.3392	27.3745	27.3675	92.55	0.43	0.12057
1012.915	1024	3.4062	31.979393	34.4005	3.3334	27.3756	27.3686	92.56	0.43	0.12355
1013.901	1025	3.4028	31.977615	34.4014	3.33	27.3766	27.3696	92.56	0.43	0.12193
1014.888	1026	3.4014	31.977085	34.4017	3.3285	27.3769	27.37	92.56	0.43	0.12248
1015.875	1027	3.3998	31.976377	34.4021	3.3268	27.3774	27.3704	92.56	0.43	0.1224
1016.862	1028	3.3977	31.975075	34.4022	3.3247	27.3777	27.3707	92.56	0.43	0.12898
1017.848	1029	3.3965	31.974461	34.4022	3.3234	27.3779	27.3709	92.56	0.43	0.12493
1018.835	1030	3.3954	31.974102	34.4024	3.3223	27.3781	27.3711	92.56	0.43	0.12437
1019.822	1031	3.3942	31.973698	34.4027	3.3209	27.3785	27.3715	92.56	0.43	0.12441
1020.809	1032	3.3838	31.965487	34.4033	3.3105	27.3799	27.373	92.56	0.43	0.1245
1021.795	1033	3.3805	31.963255	34.4035	3.3072	27.3804	27.3734	92.56	0.43	0.12454
1022.782	1034	3.3789	31.962397	34.4037	3.3056	27.3807	27.3737	92.56	0.43	0.12456
1023.769	1035	3.3765	31.961334	34.4045	3.303	27.3816	27.3746	92.56	0.43	0.12459
1024.755	1036	3.3737	31.959793	34.405	3.3002	27.3823	27.3753	92.56	0.43	0.12487
1025.742	1037	3.3724	31.959421	34.4055	3.2988	27.3828	27.3758	92.56	0.43	0.13058
1026.729	1038	3.3713	31.959223	34.4059	3.2976	27.3832	27.3762	92.56	0.43	0.13159
1027.715	1039	3.3689	31.95767	34.406	3.2952	27.3835	27.3765	92.56	0.43	0.13259
1028.702	1040	3.3683	31.957582	34.406	3.2946	27.3836	27.3765	92.56	0.43	0.13077
1029.689	1041	3.363	31.953318	34.406	3.2892	27.3841	27.3771	92.56	0.43	0.13025
1030.676	1042	3.3614	31.952372	34.406	3.2876	27.3842	27.3772	92.56	0.43	0.13
1031.662	1043	3.3599	31.951546	34.406	3.286	27.3844	27.3774	92.56	0.42	0.13005
1032.649	1044	3.358	31.950197	34.4059	3.284	27.3845	27.3775	92.56	0.43	0.13008
1033.635	1045	3.3538	31.947308	34.4064	3.2797	27.3853	27.3783	92.56	0.42	0.13012
1034.622	1046	3.3502	31.944876	34.4068	3.2761	27.3859	27.3789	92.56	0.42	0.13018
1035.609	1047	3.3484	31.943979	34.407	3.2743	27.3863	27.3793	92.56	0.43	0.13021
1036.595	1048	3.3457	31.942654	34.4078	3.2715	27.3872	27.3801	92.56	0.43	0.13025
1037.582	1049	3.3437	31.941715	34.4082	3.2694	27.3878	27.3807	92.56	0.42	0.13028
1038.569	1050	3.3397	31.940069	34.41	3.2653	27.3895	27.3825	92.56	0.43	0.13032
1039.555	1051	3.3383	31.940006	34.4108	3.2639	27.3903	27.3833	92.56	0.42	0.13238
1040.542	1052	3.3379	31.940121	34.4109	3.2634	27.3905	27.3834	92.56	0.42	0.13635
1041.529	1053	3.3375	31.940317	34.411	3.2629	27.3906	27.3835	92.53	0.42	0.13548
1042.515	1054	3.3329	31.937103	34.4115	3.2583	27.3914	27.3844	92.55	0.42	0.13841
1043.502	1055	3.3264	31.932232	34.412	3.2518	27.3924	27.3854	92.56	0.42	0.13655
1044.489	1056	3.3238	31.93078	34.4124	3.2492	27.393	27.386	92.56	0.42	0.13585
1045.475	1057	3.3203	31.928432	34.4129	3.2455	27.3937	27.3866	92.56	0.42	0.13603
1046.462	1058	3.3163	31.925535	34.413	3.2416	27.3942	27.3871	92.56	0.42	0.13801
1047.448	1059	3.3125	31.922989	34.4135	3.2377	27.3949	27.3879	92.56	0.42	0.14235
1048.435	1060	3.3102	31.921858	34.414	3.2353	27.3956	27.3885	92.56	0.42	0.14158
1049.422	1061	3.31	31.922617	34.4146	3.2351	27.3961	27.389	92.56	0.42	0.14169

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1050.408	1062	3.3103	31.923786	34.4152	3.2353	27.3965	27.3894	92.56	0.42	0.14363
1051.395	1063	3.3104	31.924416	34.4154	3.2353	27.3967	27.3896	92.56	0.42	0.14169
1052.381	1064	3.3107	31.925779	34.4162	3.2355	27.3973	27.3902	92.56	0.42	0.14121
1053.368	1065	3.3099	31.925703	34.4164	3.2346	27.3976	27.3905	92.56	0.42	0.14126
1054.354	1066	3.3066	31.923267	34.4164	3.2313	27.3979	27.3908	92.56	0.42	0.14741
1055.341	1067	3.3044	31.921818	34.4165	3.229	27.3982	27.3911	92.56	0.42	0.14771
1056.328	1068	3.2979	31.916782	34.4168	3.2225	27.399	27.3919	92.56	0.42	0.1495
1057.314	1069	3.296	31.91551	34.4167	3.2205	27.3991	27.392	92.56	0.42	0.1475
1058.301	1070	3.2964	31.916821	34.4174	3.2209	27.3996	27.3925	92.56	0.42	0.14664
1059.287	1071	3.294	31.915001	34.4172	3.2184	27.3997	27.3925	92.56	0.42	0.14671
1060.274	1072	3.2947	31.916395	34.4177	3.219	27.4	27.3929	92.56	0.42	0.14674
1061.26	1073	3.2944	31.916775	34.4179	3.2187	27.4002	27.3931	92.56	0.42	0.14677
1062.247	1074	3.2923	31.915232	34.4178	3.2165	27.4003	27.3932	92.56	0.42	0.1468
1063.233	1075	3.288	31.911598	34.4174	3.2121	27.4004	27.3933	92.56	0.42	0.14687
1064.22	1076	3.2856	31.909863	34.4173	3.2097	27.4006	27.3935	92.56	0.42	0.14691
1065.206	1077	3.2791	31.903896	34.4165	3.2031	27.4006	27.3934	92.56	0.42	0.14697
1066.193	1078	3.2703	31.896545	34.4164	3.1943	27.4014	27.3942	92.56	0.42	0.14704
1067.179	1079	3.2679	31.895191	34.4168	3.1918	27.4019	27.3948	92.56	0.42	0.14847
1068.166	1080	3.2692	31.897526	34.4178	3.193	27.4025	27.3954	92.56	0.42	0.14732
1069.152	1081	3.2738	31.902952	34.4189	3.1976	27.403	27.3958	92.57	0.42	0.14589
1070.139	1082	3.2735	31.903305	34.4191	3.1972	27.4033	27.3961	92.56	0.42	0.14697
1071.125	1083	3.2664	31.896788	34.4183	3.19	27.4033	27.3961	92.56	0.42	0.14723
1072.112	1084	3.2603	31.892195	34.4187	3.1839	27.4041	27.3969	92.56	0.42	0.14729
1073.098	1085	3.26	31.892206	34.4184	3.1836	27.404	27.3968	92.56	0.42	0.14732
1074.085	1086	3.2593	31.892199	34.4187	3.1828	27.4042	27.397	92.56	0.42	0.14771
1075.071	1087	3.2583	31.89163	34.4185	3.1818	27.4042	27.397	92.57	0.42	0.15264
1076.058	1088	3.2534	31.887512	34.4182	3.1768	27.4044	27.3972	92.46	0.42	0.15638
1077.044	1089	3.2509	31.885735	34.4182	3.1742	27.4047	27.3975	92.5	0.42	0.15257
1078.031	1090	3.2498	31.885933	34.4192	3.173	27.4055	27.3983	92.56	0.42	0.15304
1079.017	1091	3.2497	31.887022	34.42	3.1729	27.4062	27.399	92.56	0.42	0.15329
1080.004	1092	3.2517	31.889696	34.4206	3.1748	27.4065	27.3993	92.57	0.42	0.15303
1080.99	1093	3.2611	31.900414	34.4231	3.184	27.4076	27.4004	92.57	0.42	0.15165
1081.976	1094	3.2642	31.904408	34.4241	3.187	27.4082	27.4009	92.56	0.42	0.15241
1082.963	1095	3.2636	31.904625	34.4245	3.1863	27.4086	27.4013	92.56	0.42	0.15315
1083.949	1096	3.2612	31.903042	34.4246	3.1839	27.4088	27.4016	92.56	0.42	0.15338
1084.936	1097	3.2594	31.901943	34.4247	3.182	27.4091	27.4018	92.57	0.42	0.15319
1085.922	1098	3.2542	31.898422	34.4254	3.1768	27.4101	27.4029	92.56	0.42	0.1531
1086.908	1099	3.2481	31.893501	34.4254	3.1707	27.4107	27.4034	92.56	0.42	0.15404
1087.895	1100	3.2467	31.892952	34.4257	3.1692	27.4111	27.4038	92.56	0.42	0.1602
1088.881	1101	3.245	31.892361	34.4263	3.1674	27.4117	27.4045	92.56	0.42	0.16344
1089.868	1102	3.2433	31.891953	34.427	3.1657	27.4125	27.4052	92.56	0.42	0.15841
1090.854	1103	3.2423	31.891766	34.4274	3.1645	27.4129	27.4056	92.56	0.42	0.15845
1091.84	1104	3.2387	31.889458	34.4279	3.1609	27.4136	27.4063	92.56	0.42	0.15849
1092.827	1105	3.2373	31.889009	34.4283	3.1595	27.4141	27.4068	92.56	0.42	0.15921

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1093.813	1106	3.2362	31.888412	34.4283	3.1583	27.4142	27.4069	92.54	0.42	0.16197
1094.8	1107	3.2347	31.887562	34.4283	3.1567	27.4143	27.407	92.56	0.42	0.16342
1095.786	1108	3.2338	31.88748	34.4286	3.1558	27.4147	27.4074	92.57	0.42	0.16897
1096.772	1109	3.2333	31.887583	34.4288	3.1551	27.4149	27.4076	92.57	0.42	0.17378
1097.759	1110	3.233	31.88789	34.4289	3.1548	27.415	27.4077	92.57	0.42	0.17307
1098.745	1111	3.2303	31.886038	34.4291	3.152	27.4154	27.4081	92.57	0.42	0.17198
1099.731	1112	3.2267	31.88368	34.4295	3.1484	27.416	27.4087	92.56	0.42	0.17005
1100.718	1113	3.2229	31.881067	34.4298	3.1446	27.4167	27.4094	92.56	0.42	0.16939
1101.704	1114	3.219	31.878473	34.4303	3.1406	27.4174	27.4101	92.57	0.42	0.16945
1102.69	1115	3.216	31.876369	34.4305	3.1375	27.4178	27.4105	92.57	0.42	0.1695
1103.677	1116	3.2113	31.872889	34.4307	3.1328	27.4185	27.4112	92.57	0.42	0.16958
1104.663	1117	3.2081	31.870722	34.4309	3.1296	27.419	27.4116	92.57	0.42	0.16964
1105.649	1118	3.2054	31.868895	34.4311	3.1268	27.4193	27.412	92.57	0.42	0.17003
1106.636	1119	3.2036	31.867924	34.4313	3.125	27.4196	27.4123	92.57	0.42	0.17139
1107.622	1120	3.2011	31.866148	34.4313	3.1224	27.4199	27.4126	92.57	0.42	0.1768
1108.608	1121	3.1959	31.862347	34.4317	3.1172	27.4207	27.4134	92.57	0.42	0.17952
1109.595	1122	3.1933	31.860718	34.432	3.1145	27.4212	27.4138	92.57	0.42	0.17786
1110.581	1123	3.1914	31.85951	34.432	3.1125	27.4214	27.4141	92.58	0.42	0.17544
1111.567	1124	3.1872	31.856382	34.4321	3.1083	27.4219	27.4146	92.57	0.42	0.17526
1112.554	1125	3.1842	31.854357	34.4324	3.1052	27.4224	27.415	92.57	0.42	0.17533
1113.54	1126	3.1834	31.854023	34.4323	3.1043	27.4224	27.4151	92.58	0.42	0.17537
1114.526	1127	3.1785	31.850273	34.4324	3.0994	27.4229	27.4156	92.57	0.42	0.17543
1115.512	1128	3.174	31.846893	34.4326	3.0949	27.4235	27.4161	92.58	0.42	0.1755
1116.499	1129	3.1708	31.84458	34.4326	3.0917	27.4238	27.4165	92.57	0.42	0.17557
1117.485	1130	3.1657	31.840364	34.4325	3.0865	27.4242	27.4168	92.57	0.42	0.17563
1118.471	1131	3.1602	31.835875	34.4324	3.0809	27.4246	27.4173	92.57	0.42	0.17569
1119.458	1132	3.1559	31.8326	34.4324	3.0766	27.4251	27.4177	92.57	0.42	0.17577
1120.444	1133	3.1533	31.830694	34.4323	3.074	27.4252	27.4179	92.57	0.42	0.17732
1121.43	1134	3.1516	31.829609	34.4323	3.0722	27.4254	27.418	92.58	0.42	0.17768
1122.416	1135	3.1503	31.829	34.4324	3.0709	27.4256	27.4182	92.57	0.42	0.17875
1123.402	1136	3.1512	31.830694	34.4331	3.0716	27.426	27.4187	92.58	0.42	0.17671
1124.389	1137	3.1515	31.831911	34.4337	3.0718	27.4265	27.4192	92.58	0.42	0.17753
1125.375	1138	3.1503	31.831375	34.4338	3.0706	27.4267	27.4193	92.57	0.42	0.18032
1126.361	1139	3.1476	31.829977	34.4344	3.0679	27.4275	27.4201	92.57	0.42	0.17866
1127.347	1140	3.1326	31.816139	34.4331	3.0529	27.4277	27.4204	92.58	0.42	0.17839
1128.334	1141	3.1125	31.798925	34.433	3.0329	27.4295	27.4222	92.57	0.42	0.18291
1129.32	1142	3.1073	31.794531	34.4327	3.0277	27.4298	27.4225	92.58	0.42	0.17741
1130.306	1143	3.1046	31.792892	34.4331	3.0249	27.4303	27.423	92.58	0.42	0.17887
1131.292	1144	3.1046	31.793274	34.433	3.0249	27.4303	27.4229	92.58	0.42	0.18325
1132.278	1145	3.1047	31.793934	34.4332	3.0249	27.4304	27.4231	92.57	0.42	0.18285
1133.265	1146	3.1028	31.792597	34.4331	3.0229	27.4305	27.4231	92.57	0.42	0.18135
1134.251	1147	3.1013	31.791767	34.4332	3.0213	27.4308	27.4234	92.57	0.42	0.17867
1135.237	1148	3.101	31.792036	34.4333	3.0209	27.4309	27.4235	92.58	0.42	0.18196
1136.223	1149	3.1013	31.792753	34.4334	3.0212	27.4309	27.4235	92.59	0.42	0.18069

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1137.209	1150	3.0979	31.790165	34.4333	3.0178	27.4311	27.4237	92.58	0.42	0.18113
1138.196	1151	3.0924	31.786137	34.4337	3.0122	27.432	27.4246	92.57	0.42	0.1792
1139.182	1152	3.0918	31.786066	34.4338	3.0115	27.4321	27.4247	92.58	0.42	0.17747
1140.168	1153	3.0901	31.784929	34.4337	3.0097	27.4322	27.4248	92.58	0.42	0.18206
1141.154	1154	3.0875	31.783016	34.4336	3.0071	27.4324	27.425	92.59	0.42	0.18002
1142.14	1155	3.0814	31.777956	34.4335	3.001	27.4328	27.4254	92.59	0.42	0.18038
1143.126	1156	3.0756	31.773525	34.4337	2.9952	27.4335	27.4261	92.59	0.42	0.18149
1144.112	1157	3.076	31.774302	34.4337	2.9954	27.4335	27.4262	92.58	0.42	0.18154
1145.099	1158	3.0739	31.7729	34.4338	2.9933	27.4338	27.4264	92.58	0.42	0.17966
1146.085	1159	3.0711	31.77099	34.4338	2.9905	27.4341	27.4267	92.6	0.42	0.18067
1147.071	1160	3.0701	31.770699	34.434	2.9894	27.4343	27.4269	92.6	0.42	0.18315
1148.057	1161	3.0701	31.77099	34.4339	2.9893	27.4342	27.4268	92.6	0.42	0.17954
1149.043	1162	3.0703	31.771549	34.4338	2.9895	27.4341	27.4267	92.59	0.42	0.18058
1150.029	1163	3.0651	31.767653	34.4342	2.9842	27.4349	27.4275	92.59	0.42	0.18396
1151.015	1164	3.0632	31.766678	34.4344	2.9823	27.4353	27.4279	92.59	0.42	0.18081
1152.001	1165	3.0629	31.766798	34.4343	2.9819	27.4352	27.4278	92.6	0.42	0.1815
1152.988	1166	3.0638	31.767958	34.4343	2.9827	27.4352	27.4278	92.61	0.42	0.18129
1153.974	1167	3.0576	31.762955	34.4343	2.9764	27.4357	27.4283	92.61	0.42	0.18094
1154.96	1168	3.0531	31.759724	34.4347	2.9719	27.4364	27.429	92.59	0.42	0.18243
1155.946	1169	3.0514	31.758732	34.4348	2.9701	27.4367	27.4292	92.58	0.42	0.18292
1156.932	1170	3.0483	31.75663	34.435	2.967	27.4371	27.4297	92.6	0.42	0.18071
1157.918	1171	3.0458	31.755159	34.4354	2.9644	27.4376	27.4302	92.62	0.42	0.18088
1158.904	1172	3.0439	31.754185	34.4356	2.9625	27.438	27.4306	92.61	0.42	0.17917
1159.89	1173	3.0426	31.753468	34.4357	2.9611	27.4382	27.4308	92.6	0.42	0.18324
1160.876	1174	3.0416	31.753098	34.4358	2.96	27.4384	27.431	92.61	0.42	0.18554
1161.862	1175	3.0407	31.752935	34.436	2.9591	27.4386	27.4312	92.62	0.42	0.1838
1162.848	1176	3.0382	31.751289	34.4362	2.9565	27.439	27.4316	92.62	0.42	0.18349
1163.834	1177	3.0328	31.747822	34.4371	2.9511	27.4403	27.4328	92.61	0.42	0.18355
1164.82	1178	3.0309	31.746635	34.4372	2.9491	27.4405	27.4331	92.61	0.42	0.18362
1165.806	1179	3.0297	31.746395	34.4377	2.9478	27.441	27.4336	92.62	0.42	0.18366
1166.792	1180	3.0298	31.74699	34.4378	2.9479	27.4411	27.4336	92.62	0.42	0.18369
1167.778	1181	3.0301	31.74786	34.438	2.9481	27.4413	27.4338	92.62	0.42	0.18372
1168.765	1182	3.0312	31.749552	34.4384	2.9491	27.4415	27.434	92.61	0.42	0.18377
1169.75	1183	3.0304	31.749256	34.4384	2.9482	27.4415	27.434	92.62	0.42	0.18449
1170.737	1184	3.0229	31.743484	34.4387	2.9408	27.4425	27.435	92.62	0.42	0.18656
1171.723	1185	3.0142	31.736822	34.4394	2.932	27.4438	27.4364	92.61	0.42	0.18887
1172.708	1186	3.0124	31.735991	34.4398	2.9302	27.4443	27.4368	92.62	0.42	0.19117
1173.695	1187	3.0095	31.733856	34.4398	2.9272	27.4445	27.4371	92.62	0.42	0.1917
1174.681	1188	3.0045	31.730202	34.4402	2.9221	27.4453	27.4379	92.61	0.42	0.1911
1175.667	1189	3.003	31.729589	34.4405	2.9206	27.4457	27.4382	92.61	0.42	0.18957
1176.652	1190	3.0023	31.729483	34.4406	2.9198	27.4458	27.4384	92.62	0.42	0.18964
1177.639	1191	3.0015	31.729239	34.4406	2.919	27.4459	27.4384	92.61	0.42	0.18998
1178.625	1192	2.9961	31.725931	34.4419	2.9135	27.4474	27.44	92.62	0.42	0.1938
1179.61	1193	2.9982	31.728579	34.4423	2.9155	27.4476	27.4401	92.61	0.42	0.19373

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1180.596	1194	3.0007	31.731659	34.4429	2.9179	27.4478	27.4403	92.61	0.42	0.19814
1181.582	1195	3.0068	31.739475	34.4454	2.9238	27.4493	27.4418	92.62	0.42	0.19874
1182.568	1196	3.0131	31.747028	34.4472	2.9301	27.4502	27.4427	92.62	0.42	0.19523
1183.554	1197	3.012	31.746746	34.4476	2.9289	27.4506	27.4431	92.62	0.42	0.19521
1184.54	1198	3.0101	31.745735	34.4478	2.927	27.451	27.4434	92.62	0.42	0.1962
1185.526	1199	3.0072	31.743954	34.4483	2.9239	27.4516	27.4441	92.61	0.42	0.20261
1186.512	1200	3.0054	31.742662	34.4481	2.9221	27.4517	27.4441	92.59	0.42	0.20658
1187.498	1201	3.0006	31.738392	34.4475	2.9173	27.4516	27.444	92.61	0.42	0.20588
1188.484	1202	2.9898	31.728289	34.4462	2.9065	27.4516	27.444	92.62	0.42	0.21335
1189.47	1203	2.9798	31.719475	34.4456	2.8965	27.452	27.4445	92.62	0.42	0.21237
1190.456	1204	2.9753	31.716145	34.4458	2.892	27.4525	27.445	92.62	0.42	0.20706
1191.442	1205	2.9762	31.717905	34.4465	2.8927	27.453	27.4455	92.62	0.42	0.21276
1192.428	1206	2.9781	31.720751	34.4475	2.8946	27.4536	27.4461	92.62	0.42	0.21478
1193.414	1207	2.9804	31.723877	34.4482	2.8968	27.454	27.4465	92.61	0.42	0.21247
1194.4	1208	2.9836	31.727522	34.4488	2.8999	27.4542	27.4466	92.62	0.42	0.21062
1195.385	1209	2.9886	31.733591	34.4503	2.9048	27.4549	27.4474	92.62	0.42	0.21197
1196.371	1210	2.9887	31.734531	34.4508	2.9048	27.4554	27.4478	92.62	0.42	0.21308
1197.357	1211	2.9871	31.733294	34.4505	2.9031	27.4553	27.4477	92.62	0.42	0.21319
1198.343	1212	2.9828	31.72974	34.4503	2.8987	27.4555	27.4479	92.61	0.42	0.21245
1199.329	1213	2.9744	31.722622	34.45	2.8904	27.456	27.4484	92.61	0.42	0.21235
1200.315	1214	2.972	31.721403	34.4506	2.8879	27.4567	27.4491	92.61	0.42	0.21294
1201.301	1215	2.974	31.724123	34.4512	2.8898	27.457	27.4494	92.62	0.42	0.2195
1202.287	1216	2.9728	31.72356	34.4513	2.8886	27.4572	27.4496	92.62	0.42	0.22407
1203.272	1217	2.9674	31.719728	34.4519	2.8831	27.4582	27.4506	92.61	0.42	0.22045
1204.258	1218	2.9669	31.719835	34.452	2.8825	27.4583	27.4507	92.62	0.42	0.21826
1205.244	1219	2.9672	31.720625	34.4521	2.8828	27.4584	27.4508	92.62	0.42	0.2181
1206.23	1220	2.9677	31.72164	34.4523	2.8832	27.4585	27.4509	92.62	0.42	0.21937
1207.216	1221	2.9664	31.721016	34.4525	2.8818	27.4588	27.4511	92.62	0.42	0.22407
1208.202	1222	2.9612	31.71703	34.4526	2.8765	27.4594	27.4517	92.62	0.42	0.22769
1209.188	1223	2.9574	31.71442	34.4529	2.8728	27.4599	27.4523	92.62	0.42	0.22747
1210.173	1224	2.9553	31.713198	34.4532	2.8706	27.4603	27.4527	92.62	0.42	0.22517
1211.159	1225	2.9512	31.710079	34.4533	2.8664	27.4608	27.4531	92.62	0.42	0.22396
1212.145	1226	2.9497	31.709324	34.4534	2.8649	27.461	27.4534	92.62	0.42	0.22396
1213.131	1227	2.9489	31.70915	34.4535	2.864	27.4612	27.4536	92.62	0.42	0.22401
1214.117	1228	2.9481	31.708969	34.4537	2.8631	27.4614	27.4537	92.62	0.42	0.22408
1215.102	1229	2.9479	31.709471	34.454	2.8628	27.4617	27.454	92.61	0.42	0.22648
1216.088	1230	2.9479	31.710003	34.4541	2.8628	27.4618	27.4541	92.23	0.42	0.22903
1217.074	1231	2.9446	31.707954	34.4545	2.8595	27.4624	27.4548	92.6	0.42	0.23123
1218.06	1232	2.9424	31.706678	34.4548	2.8572	27.4628	27.4552	92.48	0.42	0.22887
1219.046	1233	2.9416	31.706644	34.4551	2.8563	27.4632	27.4555	92.62	0.42	0.22588
1220.031	1234	2.9362	31.70252	34.4554	2.8508	27.4639	27.4562	92.62	0.42	0.2313
1221.017	1235	2.9323	31.699852	34.4558	2.8469	27.4645	27.4568	92.62	0.42	0.23225
1222.003	1236	2.9318	31.700068	34.4561	2.8463	27.4648	27.4571	92.62	0.42	0.23071
1222.989	1237	2.9314	31.70023	34.4561	2.8459	27.4649	27.4572	92.62	0.42	0.23006

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1223.974	1238	2.9275	31.697472	34.4565	2.8419	27.4655	27.4578	92.62	0.42	0.23041
1224.96	1239	2.9235	31.694946	34.457	2.8379	27.4663	27.4587	92.62	0.42	0.23361
1225.946	1240	2.9222	31.694353	34.4572	2.8365	27.4666	27.4589	92.62	0.42	0.23675
1226.932	1241	2.9172	31.69051	34.4574	2.8315	27.4672	27.4595	92.62	0.42	0.23907
1227.918	1242	2.913	31.687624	34.4579	2.8272	27.4679	27.4603	92.62	0.42	0.23897
1228.903	1243	2.9096	31.685284	34.458	2.8238	27.4684	27.4607	92.62	0.42	0.23771
1229.889	1244	2.9056	31.682489	34.4584	2.8198	27.469	27.4613	92.62	0.42	0.23649
1230.875	1245	2.9006	31.67882	34.4587	2.8147	27.4697	27.4621	92.62	0.42	0.2368
1231.86	1246	2.8977	31.676949	34.459	2.8118	27.4702	27.4625	92.62	0.42	0.24007
1232.846	1247	2.8969	31.676636	34.459	2.8109	27.4703	27.4626	92.62	0.42	0.24654
1233.832	1248	2.8959	31.676306	34.4591	2.8099	27.4705	27.4628	92.62	0.42	0.24392
1234.818	1249	2.8939	31.675072	34.4593	2.8077	27.4708	27.4631	92.62	0.42	0.24197
1235.803	1250	2.8917	31.673819	34.4595	2.8056	27.4712	27.4635	92.62	0.42	0.24192
1236.789	1251	2.8902	31.672934	34.4596	2.804	27.4714	27.4637	92.62	0.42	0.24198
1237.775	1252	2.8885	31.672047	34.4598	2.8022	27.4717	27.464	92.62	0.42	0.24381
1238.76	1253	2.886	31.670368	34.4599	2.7997	27.472	27.4643	92.61	0.42	0.24443
1239.746	1254	2.8812	31.667265	34.4607	2.7948	27.4731	27.4654	92.62	0.42	0.2489
1240.732	1255	2.8791	31.666245	34.4612	2.7927	27.4737	27.4659	92.62	0.42	0.25076
1241.718	1256	2.877	31.665194	34.4616	2.7905	27.4742	27.4665	92.61	0.42	0.24983
1242.703	1257	2.8759	31.664705	34.4617	2.7893	27.4744	27.4667	92.62	0.42	0.24819
1243.689	1258	2.8727	31.662657	34.4621	2.7861	27.475	27.4673	92.62	0.42	0.248
1244.675	1259	2.8712	31.661978	34.4624	2.7845	27.4753	27.4676	92.62	0.42	0.25189
1245.66	1260	2.8715	31.662643	34.4623	2.7847	27.4752	27.4675	92.62	0.42	0.25612
1246.646	1261	2.8681	31.66012	34.4624	2.7813	27.4756	27.4679	92.62	0.42	0.25853
1247.631	1262	2.8606	31.654432	34.4628	2.7738	27.4767	27.4689	92.62	0.42	0.25712
1248.617	1263	2.8564	31.651724	34.4636	2.7695	27.4776	27.4699	92.62	0.42	0.25448
1249.603	1264	2.8537	31.650082	34.4638	2.7668	27.4781	27.4704	92.62	0.42	0.25394
1250.589	1265	2.8489	31.646595	34.4642	2.762	27.4788	27.4711	92.62	0.42	0.25749
1251.574	1266	2.8464	31.645119	34.4645	2.7594	27.4793	27.4716	92.62	0.42	0.2607
1252.56	1267	2.8413	31.64135	34.4649	2.7543	27.48	27.4723	92.62	0.42	0.2638
1253.545	1268	2.838	31.639168	34.4652	2.751	27.4806	27.4728	92.62	0.42	0.26089
1254.531	1269	2.836	31.638298	34.4657	2.7489	27.4812	27.4735	92.62	0.42	0.26074
1255.517	1270	2.8364	31.639769	34.4666	2.7492	27.4818	27.4741	92.62	0.42	0.26805
1256.502	1271	2.8371	31.641874	34.4679	2.7498	27.4828	27.4751	92.62	0.42	0.27152
1257.488	1272	2.8377	31.643095	34.4682	2.7503	27.483	27.4753	92.62	0.42	0.26871
1258.473	1273	2.8382	31.644041	34.4684	2.7507	27.4832	27.4754	92.62	0.42	0.26642
1259.459	1274	2.8384	31.644716	34.4685	2.7508	27.4832	27.4754	92.62	0.42	0.26566
1260.445	1275	2.8385	31.645229	34.4685	2.7508	27.4832	27.4754	92.62	0.42	0.27074
1261.43	1276	2.8387	31.646101	34.4688	2.751	27.4834	27.4756	92.6	0.42	0.2771
1262.416	1277	2.8352	31.64374	34.4691	2.7475	27.484	27.4762	92.6	0.42	0.27335
1263.401	1278	2.8298	31.639845	34.4697	2.742	27.4849	27.4772	92.62	0.42	0.28308
1264.387	1279	2.8285	31.639217	34.4697	2.7406	27.4851	27.4773	92.62	0.42	0.28285
1265.373	1280	2.8284	31.63954	34.4697	2.7404	27.4851	27.4773	92.62	0.42	0.27741
1266.358	1281	2.8278	31.639572	34.4699	2.7398	27.4853	27.4775	92.63	0.42	0.27838

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1267.344	1282	2.8274	31.639721	34.4699	2.7393	27.4854	27.4776	92.62	0.42	0.28217
1268.329	1283	2.8271	31.640156	34.4703	2.739	27.4857	27.4779	92.62	0.42	0.28436
1269.315	1284	2.8281	31.642447	34.4715	2.7399	27.4866	27.4788	92.62	0.42	0.28652
1270.3	1285	2.8277	31.642923	34.472	2.7394	27.487	27.4792	92.62	0.42	0.28276
1271.286	1286	2.8273	31.643061	34.4721	2.7389	27.4872	27.4793	92.63	0.42	0.28478
1272.271	1287	2.8252	31.642313	34.4729	2.7367	27.488	27.4802	92.62	0.42	0.28972
1273.257	1288	2.8246	31.642454	34.4732	2.7361	27.4883	27.4804	92.62	0.42	0.29431
1274.242	1289	2.8234	31.64184	34.4733	2.7348	27.4884	27.4806	92.62	0.42	0.29334
1275.228	1290	2.821	31.64023	34.4733	2.7324	27.4887	27.4808	92.62	0.42	0.28968
1276.214	1291	2.816	31.636812	34.474	2.7273	27.4897	27.4818	92.62	0.42	0.28886
1277.199	1292	2.8123	31.634058	34.474	2.7236	27.49	27.4822	92.62	0.42	0.29363
1278.185	1293	2.8109	31.633446	34.4742	2.7221	27.4903	27.4825	92.24	0.42	0.29942
1279.17	1294	2.8099	31.633165	34.4744	2.7211	27.4906	27.4827	92.62	0.42	0.2976
1280.156	1295	2.8093	31.63312	34.4745	2.7204	27.4907	27.4828	92.62	0.42	0.29636
1281.141	1296	2.808	31.632605	34.4747	2.719	27.491	27.4831	92.62	0.42	0.30384
1282.127	1297	2.8069	31.632324	34.4751	2.7178	27.4914	27.4835	92.62	0.42	0.30548
1283.112	1298	2.8053	31.631668	34.4754	2.7162	27.4918	27.4839	92.62	0.42	0.30155
1284.098	1299	2.8048	31.631573	34.4754	2.7156	27.4918	27.484	92.62	0.42	0.30053
1285.083	1300	2.8037	31.631252	34.4756	2.7144	27.4921	27.4842	92.63	0.42	0.30077
1286.068	1301	2.8018	31.630207	34.4759	2.7125	27.4925	27.4846	92.62	0.42	0.3032
1287.054	1302	2.8	31.629356	34.4762	2.7106	27.4929	27.485	92.62	0.42	0.31197
1288.039	1303	2.7995	31.62945	34.4764	2.71	27.4931	27.4852	92.62	0.42	0.31079
1289.025	1304	2.7994	31.629789	34.4763	2.7099	27.4931	27.4852	92.62	0.42	0.30682
1290.01	1305	2.7987	31.629597	34.4764	2.7091	27.4932	27.4853	92.63	0.42	0.30653
1290.996	1306	2.7962	31.627882	34.4765	2.7065	27.4935	27.4856	92.62	0.42	0.3066
1291.981	1307	2.7946	31.627068	34.4767	2.7048	27.4938	27.4859	92.62	0.42	0.30721
1292.967	1308	2.7934	31.626703	34.4769	2.7036	27.4941	27.4862	92.63	0.42	0.31425
1293.952	1309	2.7919	31.625698	34.4768	2.7021	27.4941	27.4862	92.63	0.42	0.31672
1294.938	1310	2.7877	31.62273	34.4772	2.6978	27.4948	27.4869	92.63	0.42	0.31466
1295.923	1311	2.7825	31.619122	34.4777	2.6926	27.4957	27.4878	92.63	0.42	0.31282
1296.908	1312	2.7796	31.617136	34.4779	2.6896	27.4961	27.4882	92.63	0.42	0.31269
1297.894	1313	2.7768	31.615225	34.4781	2.6868	27.4965	27.4886	92.62	0.42	0.31281
1298.879	1314	2.7736	31.613043	34.4783	2.6835	27.497	27.489	92.62	0.42	0.31293
1299.865	1315	2.7728	31.613022	34.4786	2.6827	27.4973	27.4893	92.63	0.42	0.31344
1300.85	1316	2.7728	31.613361	34.4785	2.6826	27.4972	27.4893	92.63	0.42	0.31948
1301.835	1317	2.7713	31.612465	34.4785	2.681	27.4974	27.4894	92.63	0.42	0.32475
1302.821	1318	2.7668	31.60928	34.4789	2.6764	27.4981	27.4902	92.63	0.42	0.32143
1303.806	1319	2.7673	31.610739	34.4796	2.6769	27.4986	27.4907	92.63	0.42	0.31887
1304.792	1320	2.7661	31.610291	34.4798	2.6756	27.4989	27.4909	92.63	0.42	0.31895
1305.777	1321	2.7649	31.609755	34.48	2.6743	27.4991	27.4912	92.63	0.42	0.32009
1306.762	1322	2.7629	31.608725	34.4804	2.6723	27.4996	27.4916	92.63	0.42	0.32196
1307.748	1323	2.7619	31.608429	34.4805	2.6713	27.4998	27.4918	92.62	0.42	0.32689
1308.733	1324	2.7614	31.608482	34.4806	2.6707	27.4999	27.4919	92.56	0.42	0.32939
1309.718	1325	2.7591	31.606945	34.4807	2.6683	27.5002	27.4923	92.62	0.42	0.32693

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1310.704	1326	2.7568	31.605171	34.4804	2.666	27.5002	27.4922	92.62	0.42	0.32508
1311.689	1327	2.7524	31.60177	34.4805	2.6615	27.5006	27.4926	92.5	0.42	0.32866
1312.675	1328	2.7494	31.599768	34.4807	2.6584	27.5011	27.4931	92.64	0.42	0.33291
1313.66	1329	2.7483	31.599436	34.4809	2.6573	27.5013	27.4934	92.63	0.42	0.33316
1314.645	1330	2.7461	31.597809	34.4808	2.6551	27.5014	27.4935	92.63	0.42	0.334
1315.63	1331	2.742	31.595016	34.4812	2.6509	27.5021	27.4942	92.63	0.42	0.33277
1316.616	1332	2.7402	31.593937	34.4814	2.649	27.5024	27.4944	92.63	0.42	0.33125
1317.601	1333	2.7385	31.592899	34.4814	2.6472	27.5026	27.4946	92.63	0.42	0.33129
1318.587	1334	2.7356	31.590918	34.4816	2.6443	27.503	27.495	92.63	0.42	0.33372
1319.572	1335	2.7344	31.590452	34.4817	2.6431	27.5032	27.4952	92.64	0.42	0.33862
1320.557	1336	2.7341	31.590578	34.4817	2.6427	27.5032	27.4952	92.63	0.42	0.33937
1321.542	1337	2.7332	31.590244	34.4818	2.6417	27.5034	27.4954	92.64	0.42	0.34068
1322.528	1338	2.7332	31.590714	34.4818	2.6416	27.5034	27.4954	92.63	0.42	0.3381
1323.513	1339	2.732	31.590204	34.482	2.6403	27.5037	27.4956	92.63	0.42	0.33741
1324.498	1340	2.7308	31.589695	34.4821	2.6391	27.5038	27.4958	92.64	0.42	0.33748
1325.484	1341	2.7305	31.589937	34.4822	2.6387	27.504	27.496	92.64	0.42	0.33754
1326.469	1342	2.7301	31.590027	34.4822	2.6383	27.504	27.496	92.63	0.42	0.33759
1327.454	1343	2.7267	31.587761	34.4825	2.6348	27.5046	27.4965	92.64	0.42	0.3377
1328.439	1344	2.7239	31.586042	34.483	2.6319	27.5052	27.4972	92.64	0.42	0.33782
1329.425	1345	2.7229	31.585882	34.4833	2.6309	27.5056	27.4975	92.63	0.42	0.33791
1330.41	1346	2.7225	31.586088	34.4835	2.6304	27.5057	27.4977	92.64	0.42	0.3397
1331.395	1347	2.7199	31.584229	34.4835	2.6277	27.5059	27.4979	92.64	0.42	0.34143
1332.38	1348	2.7185	31.583775	34.4839	2.6263	27.5064	27.4984	92.64	0.42	0.34689
1333.366	1349	2.7181	31.583908	34.484	2.6258	27.5065	27.4984	92.63	0.42	0.34783
1334.351	1350	2.716	31.582584	34.484	2.6237	27.5067	27.4987	92.63	0.42	0.34431
1335.336	1351	2.7133	31.580732	34.4841	2.6209	27.5071	27.499	92.64	0.42	0.34402
1336.322	1352	2.7119	31.579994	34.4843	2.6194	27.5073	27.4992	92.64	0.42	0.34463
1337.307	1353	2.7104	31.579308	34.4845	2.6179	27.5076	27.4995	92.63	0.42	0.35196
1338.292	1354	2.7089	31.578529	34.4846	2.6163	27.5079	27.4998	92.64	0.42	0.35194
1339.277	1355	2.705	31.575964	34.4851	2.6124	27.5086	27.5006	92.64	0.42	0.35214
1340.262	1356	2.7034	31.575087	34.4852	2.6107	27.5088	27.5008	92.64	0.42	0.35112
1341.248	1357	2.7016	31.574276	34.4857	2.6088	27.5094	27.5013	92.64	0.42	0.35082
1342.233	1358	2.7013	31.574766	34.486	2.6085	27.5097	27.5016	92.64	0.42	0.35068
1343.218	1359	2.7014	31.575262	34.4861	2.6085	27.5097	27.5016	92.64	0.42	0.35038
1344.203	1360	2.7015	31.575819	34.4861	2.6085	27.5097	27.5017	92.65	0.42	0.36133
1345.188	1361	2.7008	31.575598	34.4861	2.6077	27.5098	27.5017	92.64	0.42	0.3589
1346.174	1362	2.6996	31.575068	34.4862	2.6065	27.51	27.5019	92.61	0.42	0.35623
1347.159	1363	2.6984	31.574629	34.4865	2.6052	27.5103	27.5022	92.64	0.42	0.35701
1348.144	1364	2.6965	31.573513	34.4866	2.6033	27.5106	27.5025	92.63	0.42	0.36119
1349.129	1365	2.6947	31.572416	34.4866	2.6014	27.5107	27.5026	92.64	0.42	0.36293
1350.114	1366	2.6926	31.571171	34.4868	2.5993	27.5111	27.503	92.64	0.42	0.36133
1351.099	1367	2.6904	31.569744	34.487	2.5969	27.5114	27.5033	92.65	0.42	0.3632
1352.085	1368	2.6899	31.569908	34.4872	2.5964	27.5116	27.5035	92.65	0.42	0.36453
1353.07	1369	2.6898	31.570292	34.4872	2.5963	27.5117	27.5035	92.64	0.42	0.36267

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1354.055	1370	2.6886	31.569733	34.4873	2.595	27.5118	27.5037	92.65	0.42	0.36261
1355.04	1371	2.6848	31.567137	34.4877	2.5912	27.5125	27.5043	92.65	0.42	0.36325
1356.025	1372	2.6809	31.564762	34.4885	2.5871	27.5135	27.5053	92.66	0.42	0.36356
1357.01	1373	2.6799	31.564394	34.4885	2.5861	27.5136	27.5054	92.65	0.42	0.36566
1357.996	1374	2.6783	31.56357	34.4887	2.5845	27.5139	27.5057	92.65	0.42	0.36929
1358.981	1375	2.6754	31.561697	34.489	2.5815	27.5144	27.5062	92.65	0.42	0.36932
1359.966	1376	2.673	31.560041	34.489	2.5791	27.5146	27.5065	92.65	0.42	0.37043
1360.951	1377	2.6724	31.559978	34.4892	2.5783	27.5148	27.5066	92.66	0.42	0.37226
1361.936	1378	2.6718	31.560051	34.4893	2.5777	27.5149	27.5068	92.6	0.42	0.36938
1362.921	1379	2.671	31.559862	34.4894	2.5768	27.5151	27.5069	92.65	0.42	0.37174
1363.906	1380	2.6699	31.559397	34.4896	2.5756	27.5153	27.5072	92.66	0.42	0.37949
1364.891	1381	2.6676	31.557978	34.4898	2.5733	27.5157	27.5075	92.65	0.42	0.38051
1365.876	1382	2.6637	31.555384	34.4902	2.5693	27.5164	27.5082	92.65	0.42	0.3767
1366.862	1383	2.661	31.553732	34.4906	2.5666	27.5169	27.5088	92.65	0.42	0.37523
1367.847	1384	2.6587	31.552216	34.4907	2.5642	27.5172	27.509	92.65	0.42	0.37531
1368.832	1385	2.6562	31.550701	34.4909	2.5618	27.5176	27.5094	92.66	0.42	0.37844
1369.817	1386	2.6548	31.550005	34.4911	2.5603	27.5178	27.5097	92.65	0.42	0.38235
1370.802	1387	2.6536	31.549541	34.4913	2.559	27.5182	27.51	92.65	0.42	0.38552
1371.787	1388	2.6514	31.548361	34.4917	2.5567	27.5186	27.5104	92.66	0.42	0.38274
1372.772	1389	2.6486	31.546785	34.4922	2.5539	27.5193	27.5111	92.65	0.42	0.38647
1373.757	1390	2.6467	31.54566	34.4924	2.5519	27.5196	27.5114	92.66	0.42	0.39025
1374.742	1391	2.6464	31.545868	34.4924	2.5516	27.5196	27.5115	92.66	0.42	0.38967
1375.727	1392	2.6459	31.546106	34.4928	2.5509	27.52	27.5118	92.66	0.42	0.39033
1376.712	1393	2.6452	31.546021	34.4929	2.5502	27.5202	27.512	92.66	0.42	0.38889
1377.697	1394	2.6442	31.545872	34.4932	2.5491	27.5205	27.5123	92.67	0.42	0.38769
1378.682	1395	2.6431	31.545586	34.4935	2.548	27.5208	27.5126	92.66	0.42	0.38966
1379.667	1396	2.6422	31.54545	34.4939	2.5469	27.5212	27.513	92.66	0.42	0.40014
1380.652	1397	2.6414	31.545229	34.4939	2.5461	27.5213	27.5131	92.66	0.42	0.39649
1381.637	1398	2.6403	31.544931	34.4942	2.545	27.5216	27.5134	92.66	0.42	0.39408
1382.622	1399	2.6386	31.544172	34.4946	2.5432	27.5221	27.5139	92.65	0.42	0.39602
1383.608	1400	2.6374	31.54377	34.4948	2.5419	27.5224	27.5142	92.65	0.42	0.40068
1384.593	1401	2.6369	31.543812	34.4949	2.5414	27.5225	27.5143	92.65	0.42	0.40417
1385.578	1402	2.6366	31.544233	34.4952	2.541	27.5228	27.5146	92.65	0.42	0.40351
1386.563	1403	2.6353	31.543812	34.4956	2.5396	27.5232	27.515	92.65	0.42	0.40074
1387.547	1404	2.6322	31.541874	34.496	2.5364	27.5239	27.5156	92.66	0.42	0.40755
1388.532	1405	2.6311	31.541565	34.4963	2.5353	27.5242	27.5159	92.66	0.42	0.40948
1389.517	1406	2.6285	31.54007	34.4967	2.5326	27.5247	27.5165	92.66	0.42	0.40946
1390.502	1407	2.6242	31.537378	34.4976	2.5283	27.5258	27.5175	92.64	0.42	0.40846
1391.487	1408	2.6229	31.536938	34.4978	2.527	27.5261	27.5178	92.65	0.42	0.40626
1392.472	1409	2.6216	31.536316	34.498	2.5256	27.5263	27.5181	92.65	0.42	0.40622
1393.457	1410	2.6203	31.535709	34.4981	2.5242	27.5266	27.5183	92.64	0.42	0.40768
1394.442	1411	2.6178	31.534475	34.4987	2.5217	27.5273	27.519	92.66	0.42	0.41455
1395.427	1412	2.6171	31.534391	34.4989	2.5208	27.5275	27.5192	92.65	0.42	0.41745
1396.412	1413	2.6137	31.5322	34.4993	2.5175	27.5281	27.5198	92.66	0.42	0.41634

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1397.397	1414	2.6125	31.531548	34.4993	2.5162	27.5282	27.5199	92.65	0.42	0.42573
1398.382	1415	2.6094	31.529488	34.4996	2.513	27.5287	27.5204	92.65	0.42	0.42349
1399.367	1416	2.6084	31.529308	34.4999	2.512	27.529	27.5207	92.66	0.42	0.41915
1400.352	1417	2.6066	31.528269	34.5	2.5101	27.5293	27.521	92.65	0.42	0.42673
1401.337	1418	2.6011	31.524265	34.5005	2.5045	27.5302	27.5219	92.65	0.42	0.42824
1402.322	1419	2.5983	31.522722	34.5011	2.5017	27.5309	27.5226	92.65	0.42	0.42741
1403.307	1420	2.5984	31.523113	34.501	2.5017	27.5308	27.5225	92.64	0.42	0.43521
1404.292	1421	2.5979	31.523134	34.501	2.5012	27.5308	27.5226	92.65	0.42	0.43573
1405.277	1422	2.5963	31.522224	34.501	2.4996	27.531	27.5227	92.65	0.42	0.43292
1406.262	1423	2.5939	31.520956	34.5016	2.4971	27.5316	27.5233	92.65	0.42	0.43805
1407.246	1424	2.5926	31.520435	34.5018	2.4957	27.5319	27.5236	92.64	0.42	0.44265
1408.231	1425	2.5923	31.520655	34.5019	2.4953	27.532	27.5237	92.65	0.42	0.43911
1409.216	1426	2.5914	31.520407	34.502	2.4944	27.5322	27.5239	92.64	0.42	0.43665
1410.201	1427	2.5904	31.520041	34.5022	2.4932	27.5325	27.5241	92.65	0.42	0.43703
1411.186	1428	2.5892	31.519554	34.5024	2.492	27.5327	27.5244	92.65	0.42	0.4446
1412.171	1429	2.588	31.519018	34.5025	2.4907	27.5329	27.5246	92.66	0.42	0.44941
1413.156	1430	2.5848	31.517054	34.503	2.4875	27.5336	27.5253	92.66	0.42	0.44502
1414.141	1431	2.5777	31.511835	34.5036	2.4804	27.5347	27.5264	92.66	0.42	0.44309
1415.126	1432	2.5733	31.508745	34.5041	2.4759	27.5354	27.5271	92.66	0.42	0.44559
1416.11	1433	2.5716	31.507772	34.5042	2.4742	27.5357	27.5273	92.66	0.42	0.45321
1417.095	1434	2.5691	31.506159	34.5043	2.4717	27.536	27.5277	92.66	0.42	0.45322
1418.08	1435	2.5669	31.504847	34.5045	2.4694	27.5363	27.528	92.66	0.42	0.45117
1419.065	1436	2.5663	31.504734	34.5045	2.4687	27.5364	27.5281	92.66	0.42	0.45526
1420.05	1437	2.5642	31.50318	34.5043	2.4666	27.5364	27.5281	92.66	0.42	0.46098
1421.035	1438	2.5619	31.501696	34.5045	2.4643	27.5367	27.5284	92.66	0.42	0.46018
1422.02	1439	2.56	31.500605	34.5047	2.4622	27.5371	27.5288	92.66	0.42	0.46356
1423.004	1440	2.5595	31.500483	34.5046	2.4617	27.5371	27.5287	92.66	0.42	0.46691
1423.989	1441	2.5578	31.499706	34.5049	2.46	27.5374	27.5291	92.66	0.42	0.46269
1424.974	1442	2.5555	31.49828	34.5052	2.4575	27.5379	27.5295	92.66	0.42	0.46157
1425.959	1443	2.5504	31.494478	34.5054	2.4524	27.5385	27.5302	92.67	0.42	0.46172
1426.944	1444	2.5465	31.491869	34.5058	2.4486	27.5391	27.5308	92.65	0.42	0.46186
1427.928	1445	2.5452	31.491188	34.5059	2.4472	27.5393	27.531	92.67	0.42	0.46199
1428.913	1446	2.5446	31.491022	34.5059	2.4464	27.5394	27.531	92.64	0.42	0.46402
1429.898	1447	2.5438	31.490835	34.506	2.4456	27.5395	27.5312	92.66	0.42	0.4727
1430.883	1448	2.5427	31.490526	34.5062	2.4444	27.5398	27.5315	92.66	0.42	0.47194
1431.868	1449	2.5424	31.490715	34.5062	2.4441	27.5399	27.5315	92.64	0.42	0.46816
1432.852	1450	2.5417	31.490417	34.5062	2.4433	27.5399	27.5315	92.64	0.42	0.46855
1433.837	1451	2.5373	31.487463	34.5067	2.4389	27.5407	27.5323	92.66	0.42	0.47501
1434.822	1452	2.5319	31.483646	34.5073	2.4334	27.5416	27.5333	92.67	0.42	0.47703
1435.807	1453	2.53	31.482496	34.5074	2.4315	27.5419	27.5335	92.67	0.42	0.47881
1436.792	1454	2.5279	31.481171	34.5075	2.4293	27.5421	27.5337	92.67	0.42	0.4761
1437.776	1455	2.5265	31.480757	34.5079	2.4279	27.5426	27.5342	92.67	0.42	0.47476
1438.761	1456	2.5254	31.480347	34.5081	2.4267	27.5428	27.5345	92.67	0.42	0.47492
1439.746	1457	2.5243	31.479723	34.5081	2.4255	27.5429	27.5345	92.67	0.42	0.47754

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1440.731	1458	2.5213	31.477877	34.5084	2.4225	27.5435	27.5351	92.66	0.42	0.48215
1441.715	1459	2.5185	31.47599	34.5087	2.4196	27.5439	27.5355	92.67	0.42	0.48524
1442.7	1460	2.5179	31.475983	34.5088	2.419	27.544	27.5356	92.63	0.42	0.48459
1443.685	1461	2.5174	31.47604	34.5089	2.4184	27.5442	27.5358	92.64	0.42	0.48987
1444.669	1462	2.5168	31.475868	34.5088	2.4177	27.5441	27.5357	92.67	0.42	0.49122
1445.654	1463	2.5148	31.474924	34.5092	2.4157	27.5446	27.5362	92.67	0.42	0.4903
1446.639	1464	2.5142	31.474794	34.5092	2.415	27.5447	27.5363	92.67	0.42	0.4877
1447.624	1465	2.5127	31.473862	34.5092	2.4134	27.5448	27.5364	92.67	0.42	0.49005
1448.608	1466	2.5109	31.47294	34.5094	2.4116	27.5451	27.5367	92.67	0.42	0.49322
1449.593	1467	2.5088	31.471516	34.5094	2.4094	27.5453	27.5369	92.67	0.42	0.49721
1450.578	1468	2.5056	31.469372	34.5097	2.4062	27.5458	27.5374	92.67	0.42	0.49641
1451.563	1469	2.5032	31.467846	34.5099	2.4037	27.5462	27.5378	92.66	0.42	0.49387
1452.547	1470	2.5021	31.467203	34.5098	2.4026	27.5462	27.5378	92.67	0.42	0.49486
1453.532	1471	2.5001	31.466188	34.5102	2.4005	27.5467	27.5383	92.67	0.42	0.49754
1454.516	1472	2.4978	31.464779	34.5104	2.3981	27.547	27.5386	92.67	0.42	0.50419
1455.501	1473	2.4964	31.464138	34.5105	2.3967	27.5473	27.5389	92.67	0.42	0.50092
1456.486	1474	2.495	31.463573	34.5109	2.3952	27.5477	27.5393	92.67	0.42	0.4964
1457.471	1475	2.4948	31.46423	34.5114	2.3949	27.5482	27.5397	92.67	0.42	0.50207
1458.455	1476	2.4953	31.465229	34.5115	2.3953	27.5482	27.5398	92.67	0.42	0.50407
1459.44	1477	2.4947	31.465456	34.512	2.3947	27.5486	27.5402	92.67	0.42	0.50125
1460.425	1478	2.4929	31.464682	34.5124	2.3928	27.5491	27.5406	92.66	0.42	0.50071
1461.409	1479	2.4923	31.464563	34.5125	2.3921	27.5492	27.5408	92.66	0.42	0.504
1462.394	1480	2.4908	31.463808	34.5126	2.3906	27.5494	27.541	92.66	0.42	0.51402
1463.379	1481	2.489	31.462833	34.5128	2.3887	27.5498	27.5413	92.67	0.42	0.51139
1464.363	1482	2.4875	31.46212	34.513	2.3871	27.5501	27.5416	92.67	0.42	0.51413
1465.348	1483	2.4868	31.462135	34.5133	2.3863	27.5504	27.5419	92.67	0.42	0.51947
1466.332	1484	2.4853	31.461325	34.5133	2.3848	27.5505	27.542	92.67	0.42	0.51569
1467.317	1485	2.4806	31.458052	34.5138	2.3801	27.5513	27.5428	92.67	0.42	0.52507
1468.302	1486	2.4764	31.454813	34.5139	2.3759	27.5517	27.5432	92.67	0.42	0.52578
1469.286	1487	2.472	31.451614	34.5142	2.3714	27.5523	27.5438	92.66	0.42	0.51994
1470.271	1488	2.4706	31.450993	34.5144	2.37	27.5526	27.5441	92.65	0.42	0.52286
1471.255	1489	2.468	31.449492	34.5148	2.3673	27.5532	27.5447	92.67	0.42	0.52968
1472.24	1490	2.467	31.449139	34.5149	2.3662	27.5533	27.5449	92.67	0.42	0.53014
1473.225	1491	2.4665	31.449192	34.515	2.3657	27.5534	27.545	92.67	0.42	0.52666
1474.209	1492	2.4649	31.448347	34.5152	2.364	27.5537	27.5453	92.67	0.42	0.53351
1475.194	1493	2.4632	31.44747	34.5154	2.3623	27.5541	27.5456	92.67	0.42	0.53835
1476.178	1494	2.4621	31.446941	34.5155	2.361	27.5542	27.5457	92.67	0.42	0.53478
1477.163	1495	2.4614	31.447023	34.5158	2.3603	27.5545	27.546	92.67	0.42	0.53601
1478.148	1496	2.461	31.447062	34.5157	2.3598	27.5545	27.546	92.67	0.42	0.54269
1479.132	1497	2.4602	31.4471	34.5161	2.359	27.5549	27.5464	92.67	0.42	0.5425
1480.117	1498	2.4587	31.446239	34.5162	2.3574	27.5551	27.5466	92.67	0.42	0.53866
1481.101	1499	2.4568	31.44516	34.5164	2.3554	27.5554	27.5469	92.67	0.42	0.53843
1482.086	1500	2.454	31.443203	34.5165	2.3526	27.5557	27.5472	92.67	0.42	0.53967
1483.07	1501	2.4499	31.440838	34.5174	2.3485	27.5568	27.5483	92.66	0.42	0.54758

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1484.055	1502	2.4479	31.439827	34.5178	2.3464	27.5573	27.5488	92.67	0.42	0.55117
1485.039	1503	2.4477	31.440159	34.5179	2.3461	27.5574	27.5489	92.67	0.42	0.5458
1486.024	1504	2.4473	31.440292	34.518	2.3457	27.5575	27.549	92.66	0.42	0.54699
1487.009	1505	2.4465	31.440012	34.5179	2.3448	27.5575	27.549	92.67	0.42	0.55746
1487.993	1506	2.4465	31.440525	34.5181	2.3447	27.5577	27.5491	92.67	0.42	0.56126
1488.978	1507	2.4465	31.440891	34.5181	2.3446	27.5577	27.5491	92.67	0.42	0.56422
1489.962	1508	2.4463	31.441183	34.5181	2.3444	27.5577	27.5491	92.67	0.42	0.5611
1490.947	1509	2.446	31.441349	34.5181	2.344	27.5578	27.5492	92.67	0.42	0.56093
1491.931	1510	2.445	31.440943	34.5182	2.3429	27.5579	27.5494	92.67	0.42	0.5672
1492.916	1511	2.4446	31.441116	34.5183	2.3425	27.558	27.5494	92.66	0.42	0.5672
1493.9	1512	2.4447	31.441549	34.5182	2.3425	27.558	27.5494	92.67	0.42	0.56465
1494.885	1513	2.4429	31.440662	34.5185	2.3406	27.5584	27.5498	92.67	0.42	0.56352
1495.869	1514	2.4406	31.439194	34.5187	2.3382	27.5587	27.5502	92.67	0.42	0.56371
1496.854	1515	2.4382	31.437807	34.519	2.3358	27.5592	27.5506	92.67	0.42	0.56391
1497.838	1516	2.4371	31.437359	34.5191	2.3347	27.5593	27.5508	92.67	0.42	0.56401
1498.823	1517	2.4354	31.436489	34.5194	2.3328	27.5598	27.5512	92.67	0.42	0.56645
1499.807	1518	2.4347	31.436407	34.5195	2.3321	27.5599	27.5513	92.67	0.42	0.57011
1500.792	1519	2.4345	31.436611	34.5196	2.3318	27.5599	27.5513	92.67	0.42	0.57212
1501.776	1520	2.4346	31.437033	34.5194	2.3318	27.5598	27.5512	92.67	0.42	0.57455
1502.76	1521	2.4345	31.437363	34.5194	2.3317	27.5598	27.5512	92.66	0.42	0.57218
1503.745	1522	2.4343	31.437664	34.5195	2.3314	27.5599	27.5513	92.67	0.42	0.57054
1504.729	1523	2.4341	31.437811	34.5194	2.3311	27.5598	27.5512	92.67	0.42	0.57354
1505.714	1524	2.4309	31.435612	34.5196	2.3279	27.5603	27.5517	92.66	0.42	0.57796
1506.698	1525	2.4301	31.435362	34.5197	2.3269	27.5604	27.5518	92.66	0.42	0.57815
1507.683	1526	2.4293	31.435156	34.5197	2.3261	27.5605	27.5519	92.67	0.42	0.57846
1508.667	1527	2.428	31.434633	34.52	2.3247	27.5609	27.5522	92.67	0.42	0.57935
1509.651	1528	2.4273	31.43445	34.52	2.3239	27.5609	27.5523	92.67	0.42	0.57763
1510.636	1529	2.4266	31.43432	34.52	2.3232	27.561	27.5524	92.67	0.42	0.57738
1511.62	1530	2.4262	31.434338	34.52	2.3227	27.561	27.5524	92.66	0.42	0.57744
1512.605	1531	2.425	31.433836	34.5202	2.3214	27.5613	27.5526	92.67	0.42	0.57806
1513.589	1532	2.4243	31.433727	34.5202	2.3207	27.5614	27.5527	92.67	0.42	0.57946
1514.574	1533	2.4238	31.433836	34.5204	2.3201	27.5616	27.5529	92.67	0.42	0.58089
1515.558	1534	2.4234	31.433905	34.5204	2.3196	27.5616	27.553	92.67	0.42	0.58288
1516.542	1535	2.4221	31.433302	34.5205	2.3183	27.5618	27.5532	92.67	0.42	0.58682
1517.527	1536	2.4201	31.432034	34.5207	2.3162	27.5621	27.5535	92.67	0.42	0.58672
1518.511	1537	2.4189	31.431646	34.5209	2.315	27.5624	27.5537	92.64	0.42	0.58515
1519.495	1538	2.4183	31.431496	34.5209	2.3143	27.5625	27.5538	92.67	0.42	0.58474
1520.48	1539	2.4172	31.431021	34.521	2.3131	27.5626	27.554	92.67	0.42	0.58458
1521.464	1540	2.4156	31.430227	34.5212	2.3115	27.5629	27.5542	92.67	0.42	0.5847
1522.449	1541	2.4129	31.428461	34.5214	2.3087	27.5633	27.5546	92.67	0.42	0.5863
1523.433	1542	2.4108	31.427326	34.5218	2.3065	27.5638	27.5551	92.67	0.42	0.58739
1524.417	1543	2.4108	31.427567	34.5215	2.3065	27.5636	27.5549	92.67	0.42	0.58994
1525.402	1544	2.4106	31.427912	34.5217	2.3062	27.5638	27.5551	92.67	0.42	0.59389
1526.386	1545	2.4092	31.427263	34.5219	2.3047	27.564	27.5553	92.67	0.42	0.59388

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1527.37	1546	2.4059	31.424911	34.522	2.3014	27.5644	27.5557	92.67	0.42	0.59141
1528.355	1547	2.402	31.422256	34.5224	2.2975	27.565	27.5563	92.67	0.42	0.5917
1529.339	1548	2.4014	31.42219	34.5225	2.2968	27.5652	27.5565	92.67	0.42	0.59185
1530.323	1549	2.4005	31.421961	34.5226	2.2959	27.5653	27.5566	92.67	0.42	0.59199
1531.308	1550	2.3959	31.41856	34.5229	2.2912	27.5659	27.5572	92.67	0.42	0.59218
1532.292	1551	2.3929	31.416645	34.5232	2.2881	27.5665	27.5578	92.67	0.42	0.59292
1533.276	1552	2.3911	31.415644	34.5234	2.2863	27.5667	27.558	92.67	0.42	0.60017
1534.261	1553	2.3902	31.415504	34.5237	2.2853	27.5671	27.5583	92.67	0.42	0.60011
1535.245	1554	2.3894	31.415277	34.5238	2.2844	27.5672	27.5585	92.67	0.42	0.60108
1536.229	1555	2.3866	31.413397	34.5239	2.2816	27.5675	27.5588	92.67	0.42	0.5988
1537.214	1556	2.3851	31.412439	34.5239	2.28	27.5677	27.5589	92.67	0.42	0.60299
1538.198	1557	2.3816	31.410255	34.5244	2.2765	27.5683	27.5596	92.62	0.42	0.60814
1539.182	1558	2.3795	31.409233	34.5248	2.2744	27.5689	27.5602	92.67	0.42	0.60973
1540.166	1559	2.3784	31.408846	34.5251	2.2731	27.5692	27.5605	92.67	0.42	0.60844
1541.151	1560	2.376	31.407429	34.5254	2.2707	27.5697	27.5609	92.67	0.42	0.60698
1542.135	1561	2.3748	31.407028	34.5257	2.2694	27.57	27.5613	92.67	0.42	0.6056
1543.119	1562	2.3734	31.406607	34.5262	2.2679	27.5705	27.5618	92.67	0.42	0.60594
1544.104	1563	2.3724	31.406454	34.5265	2.2669	27.5709	27.5621	92.67	0.42	0.61588
1545.088	1564	2.3707	31.405779	34.527	2.2651	27.5714	27.5627	92.65	0.42	0.61721
1546.072	1565	2.3676	31.403839	34.5274	2.262	27.572	27.5633	92.67	0.42	0.62015
1547.056	1566	2.3625	31.400127	34.5278	2.2569	27.5727	27.564	92.67	0.42	0.62447
1548.041	1567	2.3599	31.398737	34.5284	2.2542	27.5734	27.5647	92.67	0.42	0.62262
1549.025	1568	2.3594	31.398943	34.5286	2.2537	27.5736	27.5649	92.66	0.42	0.62483
1550.009	1569	2.3596	31.399374	34.5285	2.2538	27.5735	27.5648	92.67	0.42	0.63273
1550.993	1570	2.3596	31.399771	34.5285	2.2537	27.5735	27.5647	92.66	0.42	0.62948
1551.977	1571	2.3596	31.400194	34.5284	2.2537	27.5734	27.5647	92.66	0.42	0.63618
1552.962	1572	2.3594	31.400581	34.5286	2.2533	27.5737	27.5649	92.67	0.42	0.6387
1553.946	1573	2.3585	31.400349	34.5288	2.2524	27.5739	27.5651	92.67	0.42	0.64335
1554.93	1574	2.3544	31.397757	34.5295	2.2483	27.5748	27.566	92.67	0.42	0.64637
1555.914	1575	2.3537	31.397604	34.5295	2.2475	27.5749	27.5661	92.67	0.42	0.64929
1556.899	1576	2.3518	31.396486	34.5297	2.2455	27.5752	27.5664	92.67	0.42	0.64656
1557.883	1577	2.3491	31.394703	34.5299	2.2428	27.5755	27.5667	92.67	0.42	0.64387
1558.867	1578	2.3467	31.39327	34.5302	2.2403	27.576	27.5672	92.67	0.42	0.64551
1559.851	1579	2.3463	31.393524	34.5304	2.2399	27.5762	27.5674	92.67	0.42	0.65531
1560.835	1580	2.3463	31.393799	34.5303	2.2397	27.5761	27.5673	92.67	0.42	0.65461
1561.819	1581	2.3462	31.394245	34.5304	2.2396	27.5762	27.5674	92.66	0.42	0.65323
1562.804	1582	2.3464	31.394775	34.5303	2.2397	27.5761	27.5673	92.67	0.42	0.65968
1563.788	1583	2.3459	31.394852	34.5304	2.2392	27.5762	27.5674	92.67	0.42	0.66129
1564.772	1584	2.3421	31.392254	34.5308	2.2353	27.5769	27.568	92.67	0.42	0.65961
1565.756	1585	2.3378	31.389263	34.5312	2.231	27.5775	27.5687	92.67	0.42	0.65786
1566.74	1586	2.333	31.385952	34.5318	2.2261	27.5784	27.5696	92.66	0.42	0.66184
1567.724	1587	2.3327	31.386139	34.5318	2.2258	27.5785	27.5696	92.66	0.42	0.66413
1568.709	1588	2.3324	31.386341	34.5319	2.2254	27.5786	27.5697	92.67	0.42	0.66439
1569.693	1589	2.3316	31.386204	34.532	2.2246	27.5787	27.5699	92.67	0.42	0.66781

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1570.677	1590	2.3293	31.384682	34.5321	2.2222	27.579	27.5702	92.67	0.42	0.66557
1571.661	1591	2.3276	31.383759	34.5323	2.2204	27.5793	27.5705	92.67	0.42	0.67212
1572.645	1592	2.3254	31.382473	34.5325	2.2182	27.5797	27.5708	92.66	0.42	0.6758
1573.629	1593	2.3225	31.38059	34.5329	2.2152	27.5802	27.5714	92.67	0.42	0.67131
1574.614	1594	2.3213	31.380016	34.533	2.2139	27.5804	27.5715	92.62	0.42	0.67464
1575.598	1595	2.3197	31.379187	34.5331	2.2123	27.5806	27.5717	92.67	0.42	0.68016
1576.582	1596	2.3183	31.378494	34.5333	2.2108	27.5809	27.572	92.67	0.42	0.68135
1577.566	1597	2.3162	31.37743	34.5336	2.2087	27.5813	27.5725	92.67	0.42	0.67937
1578.55	1598	2.3131	31.375351	34.5339	2.2055	27.5818	27.573	92.67	0.42	0.67721
1579.534	1599	2.3106	31.373882	34.5343	2.203	27.5823	27.5735	92.67	0.42	0.67806
1580.518	1600	2.309	31.372986	34.5345	2.2013	27.5826	27.5737	92.67	0.42	0.68748
1581.502	1601	2.3084	31.372965	34.5345	2.2006	27.5827	27.5739	92.66	0.42	0.68843
1582.486	1602	2.3072	31.372395	34.5346	2.1994	27.5829	27.574	92.67	0.42	0.68477
1583.47	1603	2.3044	31.370785	34.5351	2.1965	27.5835	27.5746	92.67	0.42	0.68858
1584.454	1604	2.3031	31.370256	34.5354	2.1951	27.5838	27.5749	92.67	0.42	0.69633
1585.438	1605	2.3027	31.370304	34.5353	2.1947	27.5838	27.5749	92.67	0.42	0.69433
1586.423	1606	2.3019	31.370071	34.5354	2.1938	27.584	27.5751	92.67	0.42	0.69352
1587.407	1607	2.3	31.369051	34.5357	2.1919	27.5843	27.5754	92.67	0.42	0.69929
1588.391	1608	2.299	31.368788	34.5359	2.1908	27.5846	27.5757	92.67	0.42	0.70187
1589.375	1609	2.2977	31.36824	34.5361	2.1894	27.5849	27.576	92.67	0.42	0.6991
1590.359	1610	2.2966	31.367826	34.5362	2.1883	27.585	27.5762	92.67	0.42	0.69701
1591.343	1611	2.2964	31.368107	34.5363	2.188	27.5852	27.5763	92.66	0.42	0.70308
1592.327	1612	2.2962	31.368311	34.5363	2.1877	27.5851	27.5763	92.67	0.42	0.71044
1593.311	1613	2.2945	31.367439	34.5365	2.1859	27.5855	27.5766	92.67	0.42	0.70619
1594.295	1614	2.2908	31.365095	34.5371	2.1822	27.5863	27.5774	92.67	0.42	0.70376
1595.279	1615	2.289	31.364269	34.5375	2.1803	27.5867	27.5779	92.67	0.42	0.70511
1596.263	1616	2.2879	31.363813	34.5376	2.1792	27.5869	27.578	92.67	0.42	0.71089
1597.247	1617	2.2869	31.363297	34.5376	2.1781	27.587	27.5781	92.66	0.42	0.71579
1598.231	1618	2.2833	31.361164	34.5382	2.1745	27.5878	27.5789	92.67	0.42	0.71396
1599.215	1619	2.2806	31.359676	34.5388	2.1717	27.5885	27.5796	92.67	0.42	0.7114
1600.199	1620	2.2787	31.358732	34.5392	2.1698	27.5889	27.58	92.67	0.42	0.71138
1601.183	1621	2.2749	31.356218	34.5396	2.1659	27.5896	27.5807	92.67	0.42	0.71662
1602.167	1622	2.27	31.352816	34.5402	2.161	27.5904	27.5815	92.67	0.42	0.72295
1603.151	1623	2.2689	31.352451	34.5404	2.1598	27.5907	27.5818	92.67	0.42	0.72125
1604.135	1624	2.2667	31.351231	34.5407	2.1576	27.5911	27.5822	92.67	0.42	0.72348
1605.119	1625	2.2661	31.351065	34.5407	2.1569	27.5912	27.5823	92.67	0.42	0.73107
1606.103	1626	2.2656	31.351149	34.5408	2.1563	27.5913	27.5824	92.67	0.42	0.73053
1607.087	1627	2.2643	31.350714	34.5411	2.155	27.5917	27.5828	92.67	0.42	0.73765
1608.071	1628	2.2624	31.349731	34.5414	2.1531	27.5921	27.5832	92.67	0.42	0.73554
1609.055	1629	2.2606	31.34874	34.5416	2.1512	27.5924	27.5835	92.67	0.42	0.74402
1610.039	1630	2.2598	31.348635	34.5418	2.1504	27.5926	27.5837	92.67	0.42	0.74313
1611.023	1631	2.2595	31.34886	34.542	2.1499	27.5928	27.5839	92.67	0.42	0.73977
1612.007	1632	2.2591	31.348902	34.5419	2.1495	27.5928	27.5838	92.67	0.42	0.73749
1612.991	1633	2.2584	31.348776	34.542	2.1487	27.5929	27.5839	92.67	0.42	0.74282

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1613.975	1634	2.2584	31.349216	34.5421	2.1486	27.593	27.584	92.67	0.42	0.74962
1614.958	1635	2.2579	31.349314	34.5422	2.1481	27.5931	27.5842	92.67	0.42	0.74825
1615.943	1636	2.2564	31.34857	34.5424	2.1464	27.5934	27.5845	92.67	0.42	0.75518
1616.926	1637	2.2565	31.349026	34.5423	2.1465	27.5933	27.5844	92.67	0.42	0.75329
1617.91	1638	2.2567	31.349617	34.5424	2.1466	27.5934	27.5844	92.67	0.42	0.75026
1618.894	1639	2.2565	31.349852	34.5423	2.1464	27.5933	27.5844	92.67	0.42	0.75017
1619.878	1640	2.2563	31.350166	34.5425	2.146	27.5935	27.5845	92.67	0.42	0.75029
1620.862	1641	2.2554	31.349966	34.5427	2.1451	27.5937	27.5847	92.67	0.42	0.7556
1621.846	1642	2.2547	31.34988	34.5428	2.1443	27.5939	27.5849	92.67	0.42	0.75792
1622.83	1643	2.254	31.349781	34.543	2.1435	27.5941	27.5851	92.67	0.42	0.76107
1623.814	1644	2.2532	31.349541	34.543	2.1426	27.5942	27.5852	92.67	0.42	0.75731
1624.798	1645	2.2516	31.34868	34.5432	2.141	27.5944	27.5854	92.67	0.42	0.75834
1625.781	1646	2.2516	31.349081	34.5431	2.1409	27.5944	27.5854	92.67	0.42	0.75804
1626.765	1647	2.2511	31.349174	34.5432	2.1404	27.5945	27.5855	92.67	0.42	0.75739
1627.749	1648	2.2497	31.348497	34.5434	2.1389	27.5948	27.5858	92.67	0.42	0.7576
1628.733	1649	2.2486	31.348335	34.5439	2.1377	27.5953	27.5863	92.66	0.42	0.75823
1629.717	1650	2.2481	31.348227	34.5438	2.1371	27.5953	27.5863	92.67	0.42	0.76189
1630.701	1651	2.2436	31.345211	34.5444	2.1326	27.5961	27.5871	92.67	0.42	0.76402
1631.685	1652	2.2416	31.343927	34.5444	2.1306	27.5963	27.5873	92.67	0.42	0.7632
1632.669	1653	2.2412	31.344063	34.5445	2.1301	27.5964	27.5874	92.67	0.42	0.76398
1633.652	1654	2.2409	31.344364	34.5447	2.1297	27.5966	27.5875	92.67	0.42	0.76793
1634.636	1655	2.2411	31.344757	34.5445	2.1298	27.5964	27.5874	92.67	0.42	0.76956
1635.62	1656	2.241	31.345215	34.5446	2.1297	27.5965	27.5875	92.66	0.42	0.77971
1636.604	1657	2.2404	31.345121	34.5446	2.129	27.5966	27.5875	92.66	0.42	0.77692
1637.588	1658	2.2398	31.345057	34.5447	2.1284	27.5967	27.5876	92.67	0.42	0.77169
1638.572	1659	2.2392	31.344978	34.5448	2.1276	27.5968	27.5878	92.67	0.42	0.77162
1639.555	1660	2.2385	31.344797	34.5448	2.1268	27.5969	27.5878	92.67	0.42	0.77858
1640.539	1661	2.238	31.344982	34.5451	2.1263	27.5972	27.5881	92.67	0.42	0.78137
1641.523	1662	2.2379	31.345308	34.545	2.1262	27.5971	27.588	92.67	0.42	0.78244
1642.507	1663	2.2378	31.345594	34.545	2.1259	27.5971	27.588	92.67	0.42	0.77911
1643.491	1664	2.2381	31.346237	34.545	2.1261	27.5971	27.588	92.67	0.42	0.7785
1644.474	1665	2.2378	31.346415	34.545	2.1258	27.5971	27.588	92.67	0.42	0.77861
1645.458	1666	2.2346	31.344366	34.5454	2.1225	27.5977	27.5886	92.67	0.42	0.77882
1646.442	1667	2.23	31.341234	34.5459	2.1179	27.5985	27.5894	92.67	0.42	0.77971
1647.426	1668	2.2273	31.339674	34.5464	2.1152	27.5991	27.59	92.67	0.42	0.78367
1648.41	1669	2.2254	31.338499	34.5465	2.1132	27.5994	27.5903	92.67	0.42	0.78849
1649.393	1670	2.2244	31.338179	34.5466	2.1122	27.5995	27.5904	92.67	0.42	0.78505
1650.377	1671	2.2246	31.338737	34.5467	2.1122	27.5996	27.5905	92.67	0.42	0.78804
1651.361	1672	2.2242	31.338747	34.5465	2.1118	27.5995	27.5904	92.67	0.42	0.78957
1652.345	1673	2.2219	31.337467	34.5469	2.1095	27.6	27.5909	92.67	0.42	0.78658
1653.328	1674	2.2211	31.337196	34.547	2.1085	27.6001	27.591	92.67	0.42	0.78762
1654.312	1675	2.22	31.336906	34.5473	2.1074	27.6004	27.5913	92.67	0.42	0.79891
1655.296	1676	2.2184	31.336056	34.5475	2.1057	27.6007	27.5916	92.67	0.42	0.79726
1656.28	1677	2.2169	31.335304	34.5476	2.1042	27.601	27.5918	92.66	0.42	0.79314

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1657.263	1678	2.216	31.334843	34.5475	2.1032	27.601	27.5919	92.67	0.42	0.79487
1658.247	1679	2.215	31.334633	34.5478	2.1022	27.6013	27.5921	92.67	0.42	0.80464
1659.231	1680	2.2146	31.334681	34.5478	2.1016	27.6014	27.5922	92.67	0.42	0.80645
1660.215	1681	2.2142	31.334791	34.5479	2.1012	27.6014	27.5923	92.67	0.42	0.80046
1661.198	1682	2.2141	31.335247	34.548	2.101	27.6015	27.5924	92.67	0.42	0.80722
1662.182	1683	2.214	31.335539	34.548	2.1008	27.6016	27.5924	92.67	0.42	0.80871
1663.166	1684	2.2135	31.335691	34.5482	2.1003	27.6017	27.5926	92.67	0.42	0.81035
1664.149	1685	2.2131	31.335812	34.5482	2.0998	27.6018	27.5927	92.67	0.42	0.80866
1665.133	1686	2.2129	31.335991	34.5482	2.0995	27.6018	27.5926	92.67	0.42	0.80674
1666.117	1687	2.2123	31.335932	34.5483	2.0988	27.602	27.5928	92.67	0.42	0.807
1667.101	1688	2.2115	31.335815	34.5485	2.0979	27.6022	27.593	92.67	0.42	0.80719
1668.084	1689	2.2104	31.335413	34.5486	2.0968	27.6024	27.5932	92.67	0.42	0.80776
1669.068	1690	2.2098	31.335245	34.5486	2.0961	27.6024	27.5932	92.67	0.42	0.817
1670.052	1691	2.209	31.335091	34.5487	2.0953	27.6026	27.5934	92.67	0.42	0.81418
1671.035	1692	2.2073	31.334406	34.5492	2.0935	27.6031	27.5939	92.67	0.42	0.81314
1672.019	1693	2.2073	31.334747	34.5491	2.0934	27.6031	27.5939	92.67	0.42	0.81649
1673.003	1694	2.2071	31.335087	34.5493	2.0931	27.6032	27.594	92.67	0.42	0.81566
1673.986	1695	2.2062	31.334782	34.5494	2.0921	27.6033	27.5941	92.67	0.42	0.81483
1674.97	1696	2.2051	31.334337	34.5495	2.091	27.6035	27.5943	92.67	0.42	0.81466
1675.954	1697	2.2043	31.334196	34.5497	2.0901	27.6037	27.5945	92.67	0.42	0.8148
1676.937	1698	2.2034	31.333838	34.5497	2.0891	27.6038	27.5946	92.67	0.42	0.81684
1677.921	1699	2.2013	31.332743	34.5501	2.087	27.6043	27.5951	92.67	0.42	0.81854
1678.905	1700	2.1988	31.331177	34.5503	2.0844	27.6047	27.5955	92.67	0.42	0.82308
1679.888	1701	2.1981	31.331106	34.5504	2.0837	27.6049	27.5956	92.67	0.42	0.8259
1680.872	1702	2.1968	31.330418	34.5505	2.0823	27.6051	27.5958	92.67	0.42	0.82315
1681.855	1703	2.1948	31.329496	34.551	2.0803	27.6056	27.5963	92.67	0.42	0.82213
1682.839	1704	2.1938	31.329121	34.5511	2.0792	27.6058	27.5965	92.67	0.42	0.82228
1683.823	1705	2.1903	31.326765	34.5515	2.0756	27.6064	27.5971	92.67	0.42	0.8225
1684.806	1706	2.1895	31.326633	34.5517	2.0748	27.6066	27.5973	92.67	0.42	0.82437
1685.79	1707	2.1881	31.325937	34.5518	2.0733	27.6068	27.5975	92.67	0.42	0.83213
1686.773	1708	2.1873	31.325705	34.5519	2.0724	27.6069	27.5977	92.67	0.42	0.83543
1687.757	1709	2.1865	31.325562	34.552	2.0716	27.6071	27.5979	92.67	0.42	0.83084
1688.741	1710	2.1859	31.325573	34.5522	2.0709	27.6073	27.598	92.67	0.42	0.83942
1689.724	1711	2.1854	31.325563	34.5522	2.0703	27.6074	27.5981	92.67	0.42	0.8414
1690.708	1712	2.1848	31.32548	34.5522	2.0697	27.6074	27.5981	92.67	0.42	0.83694
1691.691	1713	2.1845	31.325756	34.5523	2.0693	27.6075	27.5983	92.67	0.42	0.83919
1692.675	1714	2.1841	31.325865	34.5524	2.0688	27.6077	27.5984	92.67	0.42	0.8463
1693.658	1715	2.1838	31.325939	34.5524	2.0684	27.6077	27.5984	92.67	0.42	0.84848
1694.642	1716	2.1831	31.325979	34.5526	2.0677	27.6079	27.5986	92.67	0.42	0.84531
1695.626	1717	2.1819	31.325249	34.5525	2.0664	27.6079	27.5986	92.67	0.42	0.84308
1696.609	1718	2.1811	31.325092	34.5527	2.0655	27.6081	27.5988	92.68	0.42	0.84321
1697.593	1719	2.18	31.324709	34.5529	2.0643	27.6084	27.5991	92.68	0.42	0.84336
1698.576	1720	2.1796	31.324894	34.5531	2.0639	27.6086	27.5992	92.67	0.42	0.84391
1699.56	1721	2.1778	31.323957	34.5533	2.0621	27.6089	27.5995	92.67	0.42	0.84875

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1700.543	1722	2.177	31.323711	34.5534	2.0611	27.609	27.5997	92.67	0.42	0.8515
1701.527	1723	2.1756	31.322994	34.5535	2.0596	27.6093	27.5999	92.67	0.42	0.84956
1702.51	1724	2.1745	31.322674	34.5537	2.0586	27.6095	27.6002	92.67	0.42	0.85385
1703.494	1725	2.1738	31.322538	34.5539	2.0577	27.6097	27.6004	92.67	0.42	0.85154
1704.477	1726	2.1725	31.322014	34.5541	2.0564	27.61	27.6006	92.68	0.42	0.85263
1705.461	1727	2.1664	31.317682	34.5548	2.0503	27.611	27.6017	92.66	0.42	0.85745
1706.444	1728	2.1626	31.315351	34.5555	2.0464	27.6119	27.6025	92.67	0.42	0.85602
1707.428	1729	2.1601	31.313858	34.5558	2.0439	27.6124	27.6031	92.67	0.42	0.86187
1708.411	1730	2.1592	31.313667	34.556	2.043	27.6125	27.6032	92.67	0.42	0.86285
1709.395	1731	2.1582	31.313168	34.556	2.0418	27.6127	27.6033	92.67	0.42	0.8589
1710.378	1732	2.1569	31.312662	34.5562	2.0405	27.6129	27.6036	92.67	0.42	0.86523
1711.362	1733	2.1553	31.311764	34.5563	2.0388	27.6132	27.6038	92.67	0.42	0.87204
1712.345	1734	2.1538	31.311045	34.5565	2.0373	27.6134	27.6041	92.67	0.42	0.86752
1713.329	1735	2.1526	31.310661	34.5569	2.036	27.6139	27.6045	92.67	0.42	0.87515
1714.312	1736	2.1521	31.310677	34.557	2.0354	27.614	27.6046	92.68	0.42	0.87828
1715.296	1737	2.1514	31.310579	34.557	2.0347	27.6141	27.6047	92.68	0.42	0.88104
1716.279	1738	2.151	31.310642	34.557	2.0342	27.6141	27.6047	92.67	0.42	0.88523
1717.263	1739	2.1503	31.310629	34.5573	2.0334	27.6144	27.605	92.67	0.42	0.88095
1718.246	1740	2.1476	31.308756	34.5574	2.0307	27.6147	27.6053	92.67	0.42	0.884
1719.23	1741	2.1452	31.307621	34.558	2.0282	27.6153	27.606	92.67	0.42	0.89283
1720.213	1742	2.1446	31.30761	34.5581	2.0276	27.6155	27.6061	92.67	0.42	0.8895
1721.197	1743	2.1437	31.307316	34.5582	2.0266	27.6157	27.6063	92.67	0.42	0.88657
1722.18	1744	2.1434	31.307497	34.5583	2.0262	27.6158	27.6064	92.68	0.42	0.89128
1723.163	1745	2.1423	31.306969	34.5583	2.025	27.6158	27.6065	92.67	0.42	0.89752
1724.147	1746	2.1387	31.30468	34.5588	2.0214	27.6166	27.6072	92.68	0.42	0.89683
1725.13	1747	2.1371	31.303879	34.5591	2.0197	27.6169	27.6075	92.67	0.42	0.89279
1726.114	1748	2.1339	31.301918	34.5595	2.0166	27.6175	27.6081	92.68	0.42	0.90051
1727.097	1749	2.1303	31.299637	34.5601	2.0129	27.6182	27.6089	92.68	0.42	0.90503
1728.08	1750	2.1282	31.29845	34.5604	2.0107	27.6186	27.6093	92.67	0.42	0.89934
1729.064	1751	2.1256	31.297031	34.5609	2.0081	27.6193	27.6099	92.68	0.42	0.90454
1730.047	1752	2.1232	31.295584	34.5612	2.0056	27.6198	27.6104	92.67	0.42	0.91027
1731.031	1753	2.1204	31.294033	34.5617	2.0028	27.6204	27.611	92.68	0.42	0.91289
1732.014	1754	2.1187	31.293102	34.562	2.001	27.6207	27.6113	92.67	0.42	0.90999
1732.997	1755	2.1166	31.291937	34.5623	1.9988	27.6211	27.6117	92.67	0.42	0.91301
1733.981	1756	2.1145	31.290916	34.5627	1.9968	27.6216	27.6122	92.68	0.42	0.92136
1734.964	1757	2.1141	31.290993	34.5628	1.9962	27.6217	27.6123	92.67	0.42	0.92543
1735.948	1758	2.1124	31.29019	34.5631	1.9945	27.6221	27.6127	92.68	0.42	0.92766
1736.931	1759	2.1107	31.289349	34.5634	1.9927	27.6225	27.6131	92.68	0.42	0.93429
1737.914	1760	2.1091	31.288574	34.5636	1.9911	27.6228	27.6134	92.68	0.42	0.93524
1738.898	1761	2.1086	31.288677	34.5638	1.9905	27.623	27.6136	92.65	0.42	0.94047
1739.881	1762	2.1082	31.288767	34.5638	1.99	27.623	27.6136	92.67	0.42	0.93813
1740.864	1763	2.1079	31.289032	34.5639	1.9897	27.6232	27.6137	92.67	0.42	0.94192
1741.848	1764	2.1066	31.288429	34.5641	1.9882	27.6234	27.614	92.67	0.42	0.94634
1742.831	1765	2.1055	31.287939	34.5642	1.9871	27.6236	27.6142	92.67	0.42	0.94454

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1743.814	1766	2.104	31.28735	34.5646	1.9855	27.624	27.6146	92.67	0.42	0.95283
1744.798	1767	2.104	31.28783	34.5647	1.9854	27.6241	27.6147	92.67	0.42	0.9528
1745.781	1768	2.1038	31.288057	34.5646	1.9852	27.6241	27.6146	92.67	0.42	0.94792
1746.764	1769	2.1033	31.288141	34.5648	1.9846	27.6242	27.6148	92.67	0.42	0.94839
1747.748	1770	2.1032	31.288448	34.5648	1.9844	27.6242	27.6148	92.67	0.42	0.95918
1748.731	1771	2.1029	31.288637	34.5648	1.9841	27.6243	27.6149	92.67	0.42	0.959
1749.714	1772	2.1022	31.28853	34.5649	1.9833	27.6244	27.615	92.67	0.42	0.95409
1750.698	1773	2.1004	31.287542	34.5651	1.9814	27.6248	27.6153	92.68	0.42	0.95426
1751.681	1774	2.0998	31.287642	34.5654	1.9808	27.625	27.6155	92.67	0.42	0.95832
1752.664	1775	2.1007	31.288671	34.5652	1.9815	27.6249	27.6154	92.68	0.42	0.96329
1753.647	1776	2.0996	31.288277	34.5654	1.9804	27.625	27.6156	92.67	0.42	0.96513
1754.631	1777	2.0982	31.287632	34.5656	1.979	27.6253	27.6158	92.67	0.42	0.96167
1755.614	1778	2.0944	31.285141	34.5661	1.9751	27.6261	27.6166	92.67	0.42	0.96106
1756.597	1779	2.0929	31.284512	34.5664	1.9736	27.6264	27.6169	92.67	0.42	0.96177
1757.581	1780	2.0933	31.285086	34.5662	1.9738	27.6263	27.6168	92.67	0.42	0.96565
1758.564	1781	2.0931	31.285524	34.5665	1.9735	27.6265	27.617	92.67	0.41	0.96808
1759.547	1782	2.0928	31.285694	34.5665	1.9732	27.6265	27.617	92.67	0.42	0.9724
1760.53	1783	2.0927	31.285946	34.5664	1.973	27.6264	27.6169	92.67	0.42	0.97017
1761.514	1784	2.0928	31.286396	34.5664	1.973	27.6264	27.6169	92.68	0.42	0.9739
1762.497	1785	2.0917	31.285927	34.5665	1.9718	27.6266	27.6171	92.67	0.42	0.98033
1763.48	1786	2.0895	31.284756	34.5669	1.9696	27.6271	27.6176	92.67	0.41	0.9803
1764.463	1787	2.0896	31.285339	34.5669	1.9697	27.6271	27.6176	92.67	0.42	0.97683
1765.447	1788	2.0894	31.285435	34.5668	1.9693	27.6271	27.6176	92.67	0.41	0.97555
1766.43	1789	2.088	31.28487	34.5671	1.9679	27.6274	27.6178	92.67	0.41	0.97574
1767.413	1790	2.0846	31.282665	34.5675	1.9645	27.628	27.6185	92.67	0.41	0.97601
1768.396	1791	2.0829	31.281879	34.5678	1.9627	27.6284	27.6189	92.67	0.41	0.97621
1769.38	1792	2.08	31.279984	34.5681	1.9597	27.6289	27.6194	92.67	0.41	0.98227
1770.363	1793	2.0788	31.27956	34.5684	1.9585	27.6292	27.6197	92.67	0.41	0.98848
1771.346	1794	2.0774	31.278919	34.5686	1.9571	27.6294	27.6199	92.67	0.41	0.98551
1772.329	1795	2.0773	31.279242	34.5686	1.9568	27.6295	27.62	92.67	0.41	0.98605
1773.312	1796	2.0773	31.279671	34.5686	1.9568	27.6295	27.6199	92.67	0.41	0.99744
1774.296	1797	2.0772	31.280092	34.5688	1.9566	27.6296	27.6201	92.67	0.41	0.99659
1775.279	1798	2.0763	31.279819	34.5689	1.9556	27.6298	27.6202	92.67	0.41	0.99097
1776.262	1799	2.0757	31.279694	34.5689	1.9549	27.6298	27.6203	92.67	0.41	0.9904
1777.245	1800	2.0751	31.279705	34.5691	1.9542	27.6301	27.6205	92.67	0.41	0.99222
1778.228	1801	2.0748	31.279892	34.5691	1.9539	27.6301	27.6205	92.67	0.41	1.00163
1779.211	1802	2.0742	31.2799	34.5692	1.9532	27.6303	27.6207	92.67	0.41	1.01105
1780.195	1803	2.0746	31.280582	34.5691	1.9536	27.6301	27.6205	92.67	0.41	1.00791
1781.178	1804	2.0743	31.280886	34.5693	1.9532	27.6303	27.6207	92.67	0.41	1.00431
1782.161	1805	2.0741	31.281221	34.5694	1.9529	27.6305	27.6209	92.67	0.41	1.00409
1783.144	1806	2.0741	31.281612	34.5694	1.9528	27.6304	27.6208	92.67	0.41	1.00425
1784.127	1807	2.0738	31.281723	34.5694	1.9524	27.6305	27.6209	92.67	0.41	1.00443
1785.11	1808	2.0737	31.282009	34.5694	1.9522	27.6305	27.6209	92.67	0.41	1.00469
1786.094	1809	2.0734	31.282154	34.5694	1.9518	27.6305	27.6209	92.67	0.41	1.00552

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1787.077	1810	2.0735	31.282749	34.5695	1.9519	27.6305	27.6209	92.67	0.41	1.00743
1788.06	1811	2.0741	31.283669	34.5695	1.9524	27.6305	27.6209	92.67	0.41	1.00915
1789.043	1812	2.0747	31.284552	34.5694	1.9529	27.6305	27.6208	92.67	0.41	1.01308
1790.026	1813	2.0749	31.285202	34.5695	1.953	27.6305	27.6208	92.67	0.41	1.01415
1791.009	1814	2.0746	31.28521	34.5694	1.9526	27.6304	27.6208	92.67	0.41	1.0117
1791.992	1815	2.074	31.28528	34.5696	1.9519	27.6306	27.621	92.66	0.41	1.01372
1792.975	1816	2.0734	31.285089	34.5695	1.9512	27.6306	27.621	92.67	0.41	1.01236
1793.958	1817	2.0707	31.283424	34.5698	1.9485	27.6311	27.6214	92.67	0.42	1.0128
1794.942	1818	2.0686	31.282452	34.5704	1.9464	27.6317	27.6221	92.67	0.41	1.01303
1795.925	1819	2.067	31.281643	34.5705	1.9447	27.632	27.6223	92.67	0.41	1.01323
1796.908	1820	2.0644	31.280006	34.5708	1.9421	27.6324	27.6228	92.67	0.41	1.01348
1797.891	1821	2.0628	31.279181	34.571	1.9404	27.6327	27.623	92.66	0.41	1.01334
1798.874	1822	2.062	31.27914	34.5713	1.9395	27.633	27.6234	92.65	0.41	1.01388
1799.857	1823	2.0614	31.278988	34.5713	1.9388	27.6331	27.6234	92.65	0.41	1.01439
1800.84	1824	2.059	31.277597	34.5717	1.9364	27.6336	27.6239	92.64	0.41	1.01442
1801.823	1825	2.0578	31.277134	34.5718	1.9352	27.6338	27.6241	92.64	0.41	1.01999
1802.806	1826	2.0564	31.276434	34.572	1.9337	27.634	27.6243	92.63	0.41	1.02893
1803.789	1827	2.0539	31.275066	34.5725	1.9312	27.6346	27.6249	92.64	0.41	1.02434
1804.772	1828	2.0524	31.274361	34.5728	1.9295	27.6349	27.6253	92.64	0.41	1.03195
1805.755	1829	2.0521	31.274561	34.5728	1.9292	27.635	27.6253	92.64	0.41	1.03379
1806.738	1830	2.051	31.274225	34.573	1.928	27.6353	27.6256	92.6	0.41	1.0305
1807.721	1831	2.0492	31.273266	34.5733	1.9262	27.6356	27.6259	92.63	0.41	1.0327
1808.704	1832	2.0443	31.270041	34.574	1.9213	27.6366	27.6269	92.62	0.41	1.03758
1809.688	1833	2.0414	31.268402	34.5747	1.9183	27.6374	27.6277	92.61	0.41	1.0426
1810.671	1834	2.0409	31.268379	34.5747	1.9177	27.6374	27.6277	92.6	0.41	1.03983
1811.653	1835	2.0386	31.267145	34.575	1.9154	27.6379	27.6282	92.59	0.41	1.05059
1812.636	1836	2.0378	31.267063	34.5753	1.9146	27.6381	27.6284	92.57	0.41	1.05108
1813.62	1837	2.0378	31.267374	34.5752	1.9145	27.6381	27.6284	92.58	0.41	1.05727
1814.603	1838	2.0371	31.267345	34.5755	1.9136	27.6384	27.6287	92.57	0.41	1.05632
1815.586	1839	2.0367	31.267363	34.5753	1.9132	27.6383	27.6286	92.56	0.41	1.0635
1816.568	1840	2.0358	31.267374	34.5758	1.9123	27.6388	27.629	92.56	0.41	1.06365
1817.552	1841	2.0346	31.266745	34.5759	1.9109	27.6389	27.6292	92.55	0.41	1.06011
1818.535	1842	2.0333	31.266294	34.5762	1.9096	27.6392	27.6295	92.52	0.41	1.06889
1819.517	1843	2.0272	31.261902	34.5768	1.9035	27.6402	27.6305	92.51	0.41	1.06936
1820.5	1844	2.0243	31.260159	34.5773	1.9005	27.6408	27.6311	92.55	0.41	1.06569
1821.483	1845	2.0237	31.260162	34.5774	1.8999	27.641	27.6313	92.56	0.41	1.07474
1822.466	1846	2.0215	31.259007	34.5779	1.8976	27.6415	27.6318	92.56	0.41	1.07591
1823.449	1847	2.019	31.257711	34.5784	1.8951	27.6422	27.6324	92.52	0.41	1.07522
1824.432	1848	2.0195	31.258556	34.5784	1.8955	27.6421	27.6324	92.51	0.41	1.08429
1825.415	1849	2.0198	31.259148	34.5784	1.8957	27.6421	27.6323	92.51	0.41	1.08677
1826.398	1850	2.0203	31.259941	34.5783	1.8961	27.642	27.6322	92.53	0.41	1.09476
1827.381	1851	2.0205	31.260477	34.5783	1.8962	27.642	27.6322	92.55	0.41	1.09959
1828.364	1852	2.0206	31.260916	34.5782	1.8962	27.6419	27.6321	92.54	0.41	1.097
1829.347	1853	2.0202	31.261261	34.5785	1.8958	27.6422	27.6324	92.52	0.41	1.09567

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1830.33	1854	2.0203	31.261753	34.5785	1.8958	27.6422	27.6324	92.54	0.41	1.10466
1831.313	1855	2.0203	31.262131	34.5785	1.8957	27.6422	27.6324	92.54	0.41	1.10408
1832.296	1856	2.0198	31.262049	34.5784	1.8951	27.6422	27.6324	92.54	0.41	1.0987
1833.279	1857	2.0198	31.262457	34.5784	1.8951	27.6422	27.6324	92.55	0.41	1.09799
1834.262	1858	2.0186	31.26198	34.5786	1.8938	27.6424	27.6326	92.55	0.41	1.0993
1835.245	1859	2.0113	31.257483	34.5804	1.8865	27.6444	27.6347	92.52	0.41	1.10799
1836.228	1860	2.0084	31.255941	34.5811	1.8836	27.6452	27.6354	92.5	0.41	1.10513
1837.21	1861	2.0081	31.256161	34.5812	1.8832	27.6453	27.6355	92.5	0.41	1.10057
1838.193	1862	2.0078	31.256344	34.5813	1.8828	27.6454	27.6356	92.5	0.41	1.10196
1839.176	1863	2.0076	31.256725	34.5814	1.8826	27.6455	27.6357	92.5	0.41	1.10913
1840.159	1864	2.0075	31.257044	34.5814	1.8823	27.6456	27.6358	92.5	0.41	1.11025
1841.142	1865	2.008	31.257761	34.5813	1.8828	27.6454	27.6356	92.5	0.41	1.11486
1842.125	1866	2.0081	31.258272	34.5813	1.8827	27.6455	27.6357	92.5	0.41	1.12371
1843.108	1867	2.0076	31.258343	34.5814	1.8822	27.6456	27.6358	92.5	0.41	1.12696
1844.091	1868	2.0078	31.258963	34.5814	1.8824	27.6456	27.6357	92.5	0.41	1.12685
1845.073	1869	2.0083	31.259743	34.5814	1.8827	27.6455	27.6357	92.5	0.41	1.13381
1846.056	1870	2.0078	31.25971	34.5814	1.8822	27.6456	27.6357	92.5	0.41	1.12842
1847.039	1871	2.0078	31.260199	34.5815	1.882	27.6457	27.6358	92.5	0.41	1.1267
1848.022	1872	2.0082	31.260935	34.5815	1.8824	27.6456	27.6358	92.5	0.41	1.13063
1849.005	1873	2.0086	31.261787	34.5816	1.8827	27.6457	27.6358	92.5	0.41	1.13516
1849.988	1874	2.0087	31.262478	34.5818	1.8827	27.6459	27.636	92.5	0.41	1.13507
1850.971	1875	2.01	31.263609	34.5813	1.8839	27.6454	27.6355	92.5	0.41	1.13666
1851.953	1876	2.0099	31.263988	34.5815	1.8837	27.6455	27.6356	92.5	0.41	1.13793
1852.936	1877	2.0051	31.260744	34.5821	1.8789	27.6464	27.6365	92.5	0.41	1.13596
1853.919	1878	2.0023	31.25952	34.583	1.8761	27.6473	27.6375	92.48	0.41	1.13472
1854.902	1879	2.0021	31.259796	34.5831	1.8758	27.6474	27.6375	92.49	0.41	1.13481
1855.885	1880	2.0013	31.259758	34.5835	1.8749	27.6478	27.6379	92.44	0.41	1.13817
1856.868	1881	2.0007	31.259975	34.5838	1.8743	27.6481	27.6382	92.42	0.41	1.14714
1857.85	1882	2.0008	31.260551	34.5839	1.8743	27.6482	27.6383	92.4	0.41	1.14973
1858.833	1883	2.0004	31.260687	34.584	1.8738	27.6483	27.6384	92.37	0.41	1.14567
1859.816	1884	2.0007	31.261213	34.5839	1.874	27.6482	27.6383	92.39	0.41	1.14279
1860.799	1885	2.0015	31.261969	34.5834	1.8747	27.6477	27.6378	92.41	0.41	1.1438
1861.781	1886	2.0029	31.263317	34.5831	1.876	27.6474	27.6374	92.46	0.41	1.14915
1862.764	1887	2.0035	31.264139	34.583	1.8765	27.6473	27.6374	92.46	0.41	1.15348
1863.747	1888	2.0034	31.264448	34.5829	1.8764	27.6473	27.6373	92.46	0.41	1.14871
1864.73	1889	2.0034	31.265041	34.5832	1.8762	27.6475	27.6375	92.44	0.41	1.14962
1865.713	1890	2.0034	31.265623	34.5835	1.8761	27.6477	27.6377	92.42	0.41	1.14979
1866.695	1891	2.0032	31.265909	34.5834	1.8759	27.6477	27.6377	92.42	0.41	1.14997
1867.678	1892	2.0026	31.266041	34.5838	1.8752	27.648	27.6381	92.41	0.41	1.15017
1868.661	1893	2.0019	31.265842	34.5838	1.8745	27.6481	27.6381	92.41	0.41	1.15037
1869.644	1894	2.0011	31.26561	34.5839	1.8736	27.6482	27.6383	92.39	0.41	1.15059
1870.626	1895	2.0002	31.265566	34.5843	1.8726	27.6486	27.6386	92.4	0.41	1.15089
1871.609	1896	2.0001	31.265839	34.5842	1.8724	27.6486	27.6386	92.4	0.41	1.15118
1872.592	1897	2	31.266222	34.5843	1.8722	27.6487	27.6387	92.37	0.41	1.15141

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1873.575	1898	1.9993	31.266273	34.5846	1.8715	27.649	27.639	92.36	0.41	1.15161
1874.557	1899	1.9986	31.266279	34.5849	1.8706	27.6493	27.6393	92.34	0.41	1.15259
1875.54	1900	1.9986	31.266813	34.5851	1.8706	27.6494	27.6394	92.3	0.41	1.16507
1876.523	1901	1.9985	31.26722	34.5851	1.8705	27.6495	27.6394	92.29	0.41	1.15853
1877.505	1902	1.9984	31.267736	34.5854	1.8703	27.6497	27.6396	92.29	0.41	1.1606
1878.488	1903	1.9984	31.268137	34.5854	1.8702	27.6497	27.6396	92.25	0.41	1.16544
1879.471	1904	1.9979	31.268229	34.5855	1.8696	27.6498	27.6398	92.22	0.41	1.17051
1880.454	1905	1.998	31.268824	34.5856	1.8697	27.6499	27.6399	92.21	0.41	1.17212
1881.436	1906	1.9982	31.269411	34.5857	1.8698	27.6499	27.6399	92.22	0.41	1.16919
1882.419	1907	1.9982	31.269888	34.5858	1.8697	27.65	27.64	92.24	0.41	1.16691
1883.402	1908	1.998	31.269785	34.5854	1.8693	27.6498	27.6397	92.25	0.41	1.16648
1884.384	1909	1.9971	31.269533	34.5856	1.8684	27.65	27.6399	92.25	0.41	1.16668
1885.367	1910	1.9972	31.270079	34.5856	1.8684	27.65	27.6399	92.23	0.41	1.16685
1886.35	1911	1.9975	31.271017	34.586	1.8686	27.6503	27.6402	92.22	0.41	1.17084
1887.332	1912	1.9977	31.271683	34.586	1.8687	27.6503	27.6402	92.16	0.41	1.1726
1888.315	1913	1.996	31.270954	34.5864	1.867	27.6508	27.6407	92.1	0.41	1.17478
1889.298	1914	1.991	31.267887	34.5875	1.862	27.652	27.642	92.09	0.41	1.17793
1890.28	1915	1.9903	31.267847	34.5877	1.8612	27.6523	27.6422	92.11	0.41	1.1784
1891.263	1916	1.9904	31.268227	34.5876	1.8612	27.6521	27.6421	92.14	0.41	1.17534
1892.246	1917	1.9899	31.268246	34.5877	1.8606	27.6522	27.6422	92.14	0.41	1.17507
1893.228	1918	1.9889	31.26791	34.5878	1.8596	27.6524	27.6423	92.14	0.41	1.17528
1894.211	1919	1.9863	31.266275	34.5881	1.8569	27.6529	27.6428	92.12	0.41	1.17996
1895.194	1920	1.982	31.263515	34.5888	1.8526	27.6538	27.6437	92.12	0.41	1.18883
1896.176	1921	1.9773	31.26042	34.5895	1.8479	27.6547	27.6446	92.08	0.41	1.18502
1897.159	1922	1.9771	31.260674	34.5896	1.8476	27.6548	27.6447	92.02	0.41	1.19103
1898.141	1923	1.9773	31.261372	34.5897	1.8477	27.6549	27.6448	92.01	0.41	1.19763
1899.124	1924	1.9772	31.26173	34.5898	1.8475	27.6549	27.6448	92.01	0.41	1.19258
1900.107	1925	1.9766	31.261744	34.5899	1.8469	27.6551	27.645	92	0.41	1.20062
1901.089	1926	1.9767	31.262163	34.5898	1.8468	27.6551	27.6449	91.96	0.41	1.20477
1902.072	1927	1.9767	31.262671	34.5899	1.8468	27.6551	27.645	92	0.41	1.20364
1903.054	1928	1.9761	31.262934	34.5904	1.8462	27.6555	27.6454	91.95	0.41	1.20762
1904.037	1929	1.9753	31.26277	34.5906	1.8452	27.6558	27.6456	91.89	0.41	1.20976
1905.02	1930	1.974	31.262285	34.5908	1.8439	27.6561	27.646	91.87	0.41	1.20765
1906.002	1931	1.9733	31.261936	34.5907	1.8431	27.656	27.6459	91.92	0.41	1.21235
1906.985	1932	1.973	31.262249	34.5908	1.8428	27.6562	27.646	91.93	0.41	1.21752
1907.967	1933	1.9734	31.262827	34.5907	1.8431	27.656	27.6459	91.94	0.41	1.21143
1908.95	1934	1.9729	31.263025	34.591	1.8424	27.6563	27.6462	91.97	0.41	1.21606
1909.932	1935	1.9725	31.263279	34.5912	1.842	27.6565	27.6464	91.96	0.41	1.22579
1910.915	1936	1.973	31.263832	34.5909	1.8424	27.6562	27.6461	91.99	0.41	1.22386
1911.898	1937	1.9742	31.265179	34.5907	1.8435	27.656	27.6458	92.02	0.41	1.2191
1912.88	1938	1.9749	31.265862	34.5903	1.8441	27.6556	27.6455	92.03	0.41	1.21861
1913.863	1939	1.975	31.266239	34.5902	1.8442	27.6555	27.6453	91.97	0.41	1.21882
1914.845	1940	1.9741	31.266754	34.5913	1.8431	27.6565	27.6463	92.05	0.41	1.21912
1915.828	1941	1.9753	31.268661	34.5919	1.8443	27.6569	27.6467	92.06	0.41	1.21935

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1916.81	1942	1.9744	31.267548	34.591	1.8433	27.6562	27.646	92.06	0.41	1.21964
1917.793	1943	1.9741	31.267508	34.5908	1.8429	27.6561	27.6459	92.03	0.41	1.21984
1918.775	1944	1.9737	31.267441	34.5906	1.8424	27.656	27.6458	92.01	0.41	1.22004
1919.758	1945	1.9726	31.267088	34.5908	1.8413	27.6563	27.6461	92.05	0.41	1.22068
1920.74	1946	1.9721	31.267017	34.5908	1.8407	27.6563	27.6461	92.07	0.41	1.227
1921.723	1947	1.977	31.273552	34.5931	1.8454	27.6578	27.6475	92.04	0.41	1.22188
1922.705	1948	1.9817	31.27969	34.5952	1.8499	27.6591	27.6488	91.4	0.41	1.22191
1923.688	1949	1.9819	31.280685	34.5957	1.8501	27.6595	27.6492	90.62	0.41	1.21948
1924.67	1950	1.9822	31.281456	34.5957	1.8503	27.6595	27.6492	90.48	0.41	1.21821
1925.653	1951	1.9798	31.27943	34.5953	1.8479	27.6594	27.6491	90.72	0.41	1.22482
1926.635	1952	1.9777	31.277218	34.5944	1.8457	27.6588	27.6485	90.91	0.41	1.23185
1927.618	1953	1.9779	31.277374	34.5939	1.8458	27.6584	27.6481	91.06	0.41	1.23851
1928.6	1954	1.9772	31.277338	34.5941	1.845	27.6586	27.6483	91.1	0.41	1.24743
1929.583	1955	1.9775	31.279099	34.5954	1.8452	27.6597	27.6494	91.11	0.41	1.25394
1930.565	1956	1.9776	31.279474	34.5952	1.8453	27.6595	27.6492	91.04	0.41	1.25904
1931.548	1957	1.9787	31.280621	34.5951	1.8462	27.6593	27.649	90.97	0.41	1.25308
1932.53	1958	1.9779	31.28047	34.5952	1.8454	27.6595	27.6492	90.94	0.41	1.24849
1933.513	1959	1.9778	31.280682	34.5951	1.8452	27.6594	27.649	90.9	0.41	1.25211
1934.495	1960	1.9769	31.280651	34.5955	1.8442	27.6598	27.6495	90.91	0.41	1.25753
1935.478	1961	1.9772	31.281345	34.5955	1.8445	27.6598	27.6494	91.04	0.41	1.26139
1936.46	1962	1.9772	31.281607	34.5953	1.8444	27.6597	27.6493	91.04	0.41	1.25773
1937.443	1963	1.9774	31.282419	34.5957	1.8445	27.6599	27.6495	91.05	0.41	1.25684
1938.425	1964	1.98	31.285789	34.5965	1.847	27.6604	27.65	91.02	0.41	1.2621
1939.407	1965	1.9788	31.284861	34.5962	1.8457	27.6602	27.6498	90.94	0.41	1.2665
1940.39	1966	1.9803	31.286993	34.5967	1.847	27.6606	27.6502	90.75	0.41	1.26733
1941.372	1967	1.981	31.288763	34.5976	1.8477	27.6612	27.6509	90.55	0.41	1.26613
1942.355	1968	1.9816	31.289862	34.5979	1.8482	27.6614	27.651	90.48	0.41	1.26373
1943.337	1969	1.9824	31.291391	34.5984	1.8489	27.6618	27.6514	90.41	0.41	1.26375
1944.319	1970	1.9825	31.292149	34.5987	1.8489	27.662	27.6516	90.24	0.41	1.26734
1945.302	1971	1.9822	31.292892	34.5995	1.8485	27.6627	27.6522	90.17	0.41	1.2747
1946.284	1972	1.9821	31.293407	34.5997	1.8484	27.6628	27.6524	90.15	0.41	1.27652
1947.267	1973	1.9827	31.294287	34.5996	1.8489	27.6627	27.6523	90.13	0.41	1.27405
1948.249	1974	1.9829	31.294786	34.5995	1.849	27.6627	27.6522	90.13	0.41	1.28566
1949.231	1975	1.983	31.295225	34.5995	1.849	27.6627	27.6522	90.14	0.41	1.28548
1950.214	1976	1.9828	31.295637	34.5997	1.8487	27.6628	27.6523	90.13	0.41	1.28897
1951.196	1977	1.9823	31.295774	34.5999	1.8482	27.663	27.6525	90.09	0.41	1.29246
1952.178	1978	1.9813	31.295839	34.6005	1.8471	27.6636	27.6531	90.06	0.41	1.29321
1953.161	1979	1.9807	31.295971	34.6009	1.8464	27.6639	27.6534	90.05	0.41	1.29935
1954.143	1980	1.9807	31.296417	34.6009	1.8463	27.664	27.6535	90.02	0.41	1.29318
1955.126	1981	1.9811	31.297201	34.601	1.8466	27.6641	27.6536	89.95	0.41	1.2989
1956.108	1982	1.9824	31.298662	34.6009	1.8478	27.6639	27.6534	89.92	0.41	1.30628
1957.09	1983	1.9829	31.300087	34.6016	1.8483	27.6644	27.6538	89.72	0.41	1.30293
1958.073	1984	1.9836	31.301361	34.6019	1.8489	27.6646	27.6541	89.56	0.41	1.30139
1959.055	1985	1.9852	31.303329	34.6021	1.8503	27.6647	27.6541	89.46	0.41	1.31172

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1960.037	1986	1.987	31.305464	34.6024	1.852	27.6647	27.6542	89.32	0.41	1.31262
1961.02	1987	1.9864	31.305389	34.6025	1.8513	27.6648	27.6543	89.11	0.41	1.30661
1962.002	1988	1.9863	31.305763	34.6025	1.8511	27.6649	27.6543	88.98	0.41	1.3124
1962.984	1989	1.9855	31.305586	34.6026	1.8503	27.665	27.6545	88.91	0.41	1.32098
1963.967	1990	1.9842	31.304806	34.6026	1.8489	27.6651	27.6545	88.86	0.41	1.31897
1964.949	1991	1.9803	31.302145	34.603	1.845	27.6657	27.6552	89.03	0.41	1.31713
1965.931	1992	1.98	31.302141	34.6028	1.8446	27.6657	27.6551	89.06	0.41	1.32616
1966.913	1993	1.9788	31.301771	34.6032	1.8433	27.666	27.6555	89.12	0.41	1.32609
1967.896	1994	1.9778	31.30147	34.6033	1.8423	27.6662	27.6557	89.17	0.41	1.33001
1968.878	1995	1.9776	31.301777	34.6035	1.842	27.6664	27.6558	89.21	0.41	1.33506
1969.86	1996	1.976	31.300962	34.6036	1.8403	27.6666	27.6561	89.22	0.41	1.32989
1970.843	1997	1.9766	31.301908	34.6037	1.8408	27.6666	27.6561	89.21	0.41	1.32859
1971.825	1998	1.9766	31.302183	34.6035	1.8407	27.6665	27.6559	89.21	0.41	1.33602
1972.807	1999	1.9744	31.30068	34.6036	1.8385	27.6667	27.6561	89.25	0.41	1.34364
1973.789	2000	1.974	31.300587	34.6034	1.838	27.6666	27.656	89.41	0.41	1.33779
1974.772	2001	1.9739	31.301025	34.6035	1.8379	27.6667	27.6561	89.53	0.41	1.33619
1975.754	2002	1.9734	31.300873	34.6034	1.8373	27.6666	27.656	89.55	0.41	1.33642
1976.736	2003	1.9716	31.299988	34.6037	1.8354	27.667	27.6564	89.6	0.41	1.33748
1977.719	2004	1.9716	31.300442	34.6037	1.8354	27.6671	27.6564	89.61	0.41	1.33957
1978.701	2005	1.9715	31.300802	34.6038	1.8352	27.6671	27.6565	89.62	0.41	1.3427
1979.683	2006	1.9716	31.30122	34.6038	1.8351	27.6671	27.6565	89.61	0.41	1.34427
1980.665	2007	1.9717	31.301796	34.6038	1.8352	27.6672	27.6565	89.6	0.41	1.33966
1981.647	2008	1.9718	31.30217	34.6037	1.8352	27.667	27.6564	89.55	0.41	1.34984
1982.63	2009	1.9717	31.302767	34.6041	1.835	27.6674	27.6567	89.54	0.41	1.3475
1983.612	2010	1.9722	31.303667	34.6042	1.8354	27.6674	27.6568	89.49	0.41	1.34474
1984.594	2011	1.9731	31.304823	34.6041	1.8362	27.6673	27.6566	89.42	0.41	1.3449
1985.576	2012	1.9723	31.304649	34.6042	1.8354	27.6675	27.6568	89.39	0.41	1.34514
1986.559	2013	1.9707	31.303801	34.6044	1.8337	27.6677	27.6571	89.41	0.41	1.34553
1987.541	2014	1.9697	31.303364	34.6045	1.8326	27.6679	27.6572	89.44	0.41	1.34595
1988.523	2015	1.9699	31.303928	34.6044	1.8327	27.6678	27.6572	89.46	0.41	1.34619
1989.505	2016	1.9691	31.303696	34.6045	1.8319	27.6679	27.6573	89.5	0.41	1.34704
1990.487	2017	1.9671	31.302395	34.6046	1.8298	27.6682	27.6575	89.56	0.41	1.35118
1991.47	2018	1.9673	31.302937	34.6045	1.8299	27.6681	27.6574	89.62	0.41	1.35387
1992.452	2019	1.9634	31.299986	34.6046	1.826	27.6685	27.6578	89.63	0.41	1.35904
1993.434	2020	1.9624	31.299576	34.6047	1.8249	27.6686	27.658	89.71	0.41	1.35678
1994.416	2021	1.962	31.29958	34.6046	1.8244	27.6686	27.6579	89.8	0.41	1.35425
1995.398	2022	1.9609	31.299147	34.6047	1.8233	27.6688	27.6581	89.74	0.41	1.35458
1996.38	2023	1.9606	31.299183	34.6045	1.8229	27.6687	27.658	89.83	0.41	1.3548
1997.363	2024	1.9607	31.299517	34.6044	1.8229	27.6686	27.6579	89.91	0.41	1.35503
1998.345	2025	1.9616	31.300686	34.6043	1.8238	27.6685	27.6577	90.01	0.41	1.35699
1999.327	2026	1.9645	31.303551	34.6044	1.8265	27.6683	27.6575	89.94	0.41	1.3618
2000.309	2027	1.9654	31.304979	34.6046	1.8273	27.6684	27.6576	89.76	0.41	1.36324
2001.291	2028	1.9653	31.305309	34.6046	1.8271	27.6684	27.6577	89.77	0.41	1.36088
2002.273	2029	1.9642	31.304688	34.6046	1.8259	27.6685	27.6577	89.83	0.41	1.35549

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2003.255	2030	1.9649	31.305729	34.6046	1.8265	27.6685	27.6577	89.76	0.41	1.35786
2004.238	2031	1.9633	31.304691	34.6045	1.8249	27.6685	27.6578	89.75	0.41	1.36151
2005.22	2032	1.9617	31.303869	34.6047	1.8233	27.6688	27.658	89.77	0.41	1.36174
2006.202	2033	1.9616	31.304178	34.6048	1.823	27.6688	27.6581	89.8	0.41	1.35892
2007.184	2034	1.9619	31.304857	34.6047	1.8233	27.6688	27.658	89.8	0.41	1.36003
2008.166	2035	1.9625	31.305708	34.6047	1.8237	27.6688	27.658	89.8	0.41	1.36153
2009.148	2036	1.9604	31.304358	34.6047	1.8217	27.6689	27.6581	89.87	0.41	1.36194
2010.13	2037	1.9571	31.301779	34.6046	1.8183	27.6691	27.6583	89.89	0.41	1.36105
2011.112	2038	1.9534	31.299316	34.6051	1.8145	27.6698	27.659	89.94	0.41	1.36163
2012.094	2039	1.9531	31.299419	34.605	1.8142	27.6698	27.659	89.97	0.41	1.36144
2013.077	2040	1.9526	31.299538	34.6052	1.8136	27.6699	27.6591	89.96	0.41	1.36291
2014.059	2041	1.9523	31.299641	34.6052	1.8132	27.6699	27.6591	89.96	0.41	1.36332
2015.041	2042	1.9519	31.299782	34.6052	1.8128	27.67	27.6592	89.94	0.41	1.3589
2016.023	2043	1.952	31.300341	34.6053	1.8128	27.6701	27.6593	89.9	0.41	1.3662
2017.005	2044	1.9523	31.301008	34.6053	1.813	27.6701	27.6593	89.89	0.41	1.37012
2017.987	2045	1.9524	31.301373	34.6053	1.8129	27.67	27.6592	89.9	0.41	1.36867
2018.969	2046	1.9521	31.301697	34.6055	1.8126	27.6702	27.6594	89.87	0.41	1.36693
2019.951	2047	1.9521	31.302029	34.6053	1.8125	27.6701	27.6593	89.86	0.41	1.36719
2020.933	2048	1.952	31.302418	34.6055	1.8123	27.6702	27.6594	89.85	0.41	1.36734
2021.915	2049	1.9518	31.302574	34.6053	1.8121	27.6702	27.6593	89.85	0.41	1.36764
2022.897	2050	1.9518	31.302921	34.6053	1.8119	27.6702	27.6593	89.84	0.41	1.36775
2023.879	2051	1.9515	31.303122	34.6054	1.8116	27.6702	27.6594	89.83	0.41	1.36811
2024.861	2052	1.9514	31.30349	34.6055	1.8114	27.6703	27.6595	89.85	0.41	1.36826
2025.843	2053	1.9514	31.303831	34.6054	1.8113	27.6703	27.6594	89.88	0.41	1.36867
2026.825	2054	1.9514	31.304207	34.6053	1.8112	27.6702	27.6593	89.9	0.41	1.37047
2027.807	2055	1.9512	31.304502	34.6055	1.8109	27.6703	27.6595	89.95	0.41	1.37381
2028.789	2056	1.9513	31.304865	34.6052	1.811	27.6702	27.6593	89.94	0.41	1.37807
2029.771	2057	1.9517	31.305738	34.6054	1.8113	27.6703	27.6594	89.91	0.41	1.37148
2030.753	2058	1.9511	31.30566	34.6055	1.8106	27.6704	27.6595	89.91	0.41	1.37222
2031.735	2059	1.9508	31.305891	34.6056	1.8102	27.6705	27.6596	89.96	0.41	1.37339
2032.717	2060	1.9511	31.30637	34.6054	1.8104	27.6703	27.6594	89.98	0.41	1.36871
2033.699	2061	1.9519	31.307354	34.6053	1.8111	27.6702	27.6593	89.96	0.41	1.36953
2034.681	2062	1.9514	31.307484	34.6054	1.8106	27.6703	27.6594	89.96	0.41	1.36967
2035.663	2063	1.9512	31.307764	34.6055	1.8103	27.6704	27.6595	89.93	0.41	1.36994
2036.645	2064	1.9512	31.30825	34.6056	1.8102	27.6705	27.6595	89.88	0.41	1.37138
2037.627	2065	1.9513	31.308588	34.6054	1.8102	27.6704	27.6594	89.87	0.41	1.37169
2038.609	2066	1.9515	31.309147	34.6054	1.8103	27.6703	27.6594	89.87	0.41	1.37191
2039.591	2067	1.9515	31.309599	34.6054	1.8103	27.6704	27.6594	89.87	0.41	1.37212
2040.573	2068	1.9509	31.309326	34.6053	1.8095	27.6703	27.6594	89.86	0.41	1.37236
2041.555	2069	1.9513	31.310154	34.6054	1.8099	27.6703	27.6594	89.86	0.41	1.37254
2042.537	2070	1.9514	31.310696	34.6055	1.8099	27.6704	27.6595	89.86	0.41	1.37274
2043.519	2071	1.9506	31.310316	34.6053	1.809	27.6704	27.6594	89.9	0.41	1.37299
2044.501	2072	1.9506	31.310692	34.6053	1.809	27.6704	27.6594	89.9	0.41	1.37319
2045.483	2073	1.9506	31.311115	34.6053	1.8089	27.6704	27.6594	89.9	0.41	1.3734

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2046.465	2074	1.9508	31.311668	34.6053	1.809	27.6704	27.6594	89.93	0.41	1.3736
2047.447	2075	1.9513	31.31251	34.6053	1.8094	27.6704	27.6594	89.94	0.41	1.37378
2048.429	2076	1.9508	31.312462	34.6054	1.8088	27.6704	27.6594	89.92	0.41	1.37401
2049.411	2077	1.9503	31.312563	34.6055	1.8082	27.6706	27.6595	89.94	0.41	1.37425
2050.393	2078	1.9513	31.313732	34.6054	1.8091	27.6704	27.6594	89.97	0.41	1.37443
2051.375	2079	1.9513	31.31411	34.6054	1.809	27.6704	27.6594	89.95	0.41	1.37473
2052.356	2080	1.9509	31.31428	34.6055	1.8086	27.6705	27.6595	89.91	0.41	1.37501
2053.338	2081	1.9505	31.31443	34.6056	1.8081	27.6707	27.6596	89.94	0.41	1.37532
2054.32	2082	1.9506	31.314875	34.6055	1.8081	27.6706	27.6596	89.95	0.41	1.37537
2055.302	2083	1.9495	31.314247	34.6055	1.8069	27.6707	27.6596	89.95	0.41	1.37509
2056.284	2084	1.9499	31.314909	34.6054	1.8072	27.6706	27.6595	89.94	0.41	1.37395
2057.266	2085	1.9504	31.315882	34.6055	1.8076	27.6707	27.6596	89.95	0.41	1.37355
2058.248	2086	1.9496	31.315521	34.6055	1.8068	27.6707	27.6596	89.95	0.41	1.37618
2059.229	2087	1.9504	31.316454	34.6053	1.8074	27.6705	27.6594	90	0.41	1.37549
2060.211	2088	1.9502	31.316826	34.6055	1.8071	27.6707	27.6596	89.96	0.41	1.37602
2061.193	2089	1.95	31.317207	34.6056	1.8069	27.6708	27.6597	89.95	0.41	1.37808
2062.175	2090	1.9492	31.316843	34.6055	1.8061	27.6708	27.6597	89.95	0.41	1.37225
2063.157	2091	1.9485	31.316788	34.6058	1.8052	27.671	27.6599	89.95	0.41	1.36924
2064.139	2092	1.9484	31.316959	34.6056	1.805	27.6709	27.6598	90.02	0.41	1.3719
2065.121	2093	1.9489	31.317772	34.6055	1.8055	27.6708	27.6597	90.03	0.41	1.37547
2066.103	2094	1.9487	31.318214	34.6058	1.8052	27.6711	27.6599	90.01	0.41	1.37335
2067.084	2095	1.9489	31.318617	34.6057	1.8053	27.6709	27.6598	90	0.41	1.37573
2068.066	2096	1.945	31.315817	34.6058	1.8014	27.6713	27.6602	90.01	0.41	1.3757
2069.048	2097	1.9441	31.3155	34.6059	1.8004	27.6715	27.6604	89.97	0.41	1.3753
2070.03	2098	1.9427	31.314793	34.606	1.799	27.6717	27.6606	90.11	0.41	1.38257
2071.012	2099	1.9433	31.315521	34.6058	1.7995	27.6715	27.6603	90.13	0.41	1.38112
2071.994	2100	1.9438	31.316519	34.6061	1.7998	27.6717	27.6605	90.23	0.41	1.38119
2072.975	2101	1.9429	31.316078	34.6059	1.7989	27.6716	27.6605	90.2	0.41	1.38178
2073.957	2102	1.9419	31.315735	34.6061	1.7978	27.6719	27.6607	90.31	0.41	1.37957
2074.939	2103	1.942	31.316284	34.6062	1.7979	27.6719	27.6607	90.35	0.41	1.3804
2075.921	2104	1.9413	31.315973	34.6061	1.797	27.6719	27.6608	90.35	0.41	1.37891
2076.903	2105	1.9396	31.314779	34.6059	1.7953	27.6719	27.6607	90.39	0.41	1.38104
2077.884	2106	1.9396	31.315157	34.6059	1.7953	27.6719	27.6607	90.45	0.41	1.38334
2078.866	2107	1.9398	31.315907	34.6061	1.7954	27.672	27.6609	90.45	0.41	1.3774
2079.848	2108	1.9394	31.315935	34.6061	1.7949	27.6721	27.6609	90.44	0.41	1.38096
2080.83	2109	1.9394	31.316383	34.6061	1.7948	27.6721	27.6609	90.46	0.41	1.38048
2081.812	2110	1.9397	31.316944	34.606	1.795	27.672	27.6608	90.47	0.41	1.37808
2082.793	2111	1.9396	31.317274	34.6061	1.7948	27.6721	27.6609	90.49	0.41	1.37663
2083.775	2112	1.9393	31.317394	34.606	1.7944	27.6721	27.6609	90.47	0.41	1.37666
2084.757	2113	1.9406	31.319021	34.6062	1.7956	27.6721	27.6609	90.41	0.41	1.37812
2085.739	2114	1.941	31.319666	34.6061	1.7959	27.672	27.6607	90.35	0.41	1.3785
2086.72	2115	1.9397	31.319077	34.6062	1.7945	27.6722	27.661	90.44	0.41	1.37855
2087.702	2116	1.9378	31.317738	34.6061	1.7926	27.6723	27.6611	90.53	0.41	1.37898
2088.684	2117	1.9386	31.319206	34.6066	1.7933	27.6726	27.6613	90.61	0.41	1.37911

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2089.666	2118	1.939	31.319633	34.6061	1.7937	27.6722	27.6609	90.59	0.41	1.3793
2090.647	2119	1.9404	31.321196	34.6061	1.7949	27.6721	27.6609	90.52	0.41	1.37944
2091.629	2120	1.9412	31.322435	34.6063	1.7956	27.6722	27.6609	90.51	0.41	1.37961
2092.611	2121	1.9573	31.338854	34.6088	1.8113	27.673	27.6617	90.53	0.41	1.37903
2093.592	2122	1.9628	31.343946	34.6087	1.8167	27.6725	27.6611	90.54	0.41	1.37909
2094.574	2123	1.9586	31.340805	34.6088	1.8125	27.6729	27.6615	90.51	0.41	1.38098
2095.556	2124	1.9598	31.341978	34.6086	1.8135	27.6726	27.6613	90.5	0.41	1.39662
2096.538	2125	1.9639	31.346279	34.6089	1.8175	27.6726	27.6612	90.49	0.41	1.40084
2097.519	2126	1.964	31.346807	34.6089	1.8175	27.6726	27.6612	90.46	0.41	1.40494
2098.501	2127	1.9637	31.346771	34.6087	1.8172	27.6725	27.6611	90.46	0.41	1.40203
2099.483	2128	1.9591	31.34293	34.6084	1.8126	27.6726	27.6612	90.49	0.41	1.40683
2100.464	2129	1.9574	31.341717	34.6083	1.8108	27.6726	27.6612	90.49	0.41	1.4105
2101.446	2130	1.9649	31.348785	34.6085	1.8181	27.6722	27.6608	90.51	0.41	1.40741
2102.427	2131	1.9609	31.345802	34.6086	1.8141	27.6726	27.6612	90.5	0.41	1.40785
2103.409	2132	1.9642	31.349424	34.6091	1.8172	27.6728	27.6614	90.51	0.41	1.4079
2104.391	2133	1.9666	31.351929	34.6091	1.8195	27.6726	27.6611	90.48	0.41	1.40781
2105.373	2134	1.9656	31.351458	34.609	1.8184	27.6726	27.6612	90.48	0.41	1.41158
2106.354	2135	1.9649	31.350863	34.6087	1.8176	27.6724	27.661	90.49	0.41	1.41429
2107.336	2136	1.9649	31.351494	34.6089	1.8175	27.6726	27.6612	90.49	0.41	1.41621
2108.318	2137	1.9634	31.350435	34.6088	1.8159	27.6726	27.6611	90.49	0.41	1.41579
2109.299	2138	1.9627	31.35029	34.6088	1.8152	27.6727	27.6613	90.5	0.41	1.41646
2110.281	2139	1.9567	31.344795	34.608	1.8092	27.6725	27.6611	90.51	0.41	1.4163
2111.262	2140	1.9584	31.347155	34.6085	1.8108	27.6728	27.6614	90.58	0.41	1.41285
2112.244	2141	1.9608	31.350174	34.6092	1.813	27.6732	27.6617	90.58	0.41	1.40809
2113.226	2142	1.9594	31.349148	34.609	1.8116	27.6731	27.6616	90.63	0.41	1.41136
2114.207	2143	1.9591	31.349228	34.6089	1.8112	27.6731	27.6616	90.62	0.41	1.4168
2115.189	2144	1.9578	31.348576	34.609	1.8099	27.6732	27.6618	90.62	0.41	1.41843
2116.171	2145	1.9566	31.347555	34.6085	1.8086	27.673	27.6615	90.61	0.41	1.41858
2117.152	2146	1.9502	31.341761	34.6077	1.8023	27.6728	27.6613	90.62	0.41	1.41883
2118.134	2147	1.9489	31.341032	34.6078	1.8008	27.673	27.6615	90.65	0.41	1.41172
2119.115	2148	1.9553	31.347195	34.608	1.8071	27.6726	27.6611	90.63	0.41	1.40858
2120.097	2149	1.9587	31.350857	34.6084	1.8103	27.6728	27.6612	90.53	0.41	1.40228
2121.079	2150	1.9597	31.352232	34.6085	1.8112	27.6728	27.6613	90.51	0.41	1.40601
2122.06	2151	2.202	31.56336	34.6086	2.0495	27.6542	27.6419	90.49	0.41	1.39389
2123.042	2152	2.3636	31.70138	34.6047	2.2084	27.6382	27.6254	88.94	0.41	1.39516
2124.023	2153	2.5391	31.863325	34.6149	2.381	27.6321	27.6186	88.21	0.41	1.3973
2125.005	2154	2.6145	31.921478	34.605	2.4551	27.618	27.6043	84.93	0.41	1.3942
2125.987	2155	2.5459	31.860691	34.6035	2.3875	27.6225	27.609	81.14	0.41	1.4042
2126.968	2156	2.3821	31.721025	34.6071	2.2262	27.6387	27.6258	82.46	0.41	1.41454
2127.95	2157	2.3143	31.659328	34.6034	2.1595	27.6412	27.6285	82.29	0.41	1.41542
2128.931	2158	2.366	31.707567	34.6068	2.2103	27.6398	27.6269	83.1	0.41	1.4002
2129.913	2159	2.5499	31.864479	34.602	2.391	27.621	27.6075	83.27	0.41	1.40463
2130.894	2160	2.4245	31.755848	34.6025	2.2676	27.6316	27.6185	81.61	0.41	1.41149
2131.876	2161	2.4655	31.79249	34.6031	2.3078	27.6288	27.6155	84.43	0.41	1.40932

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2132.857	2162	2.3338	31.678558	34.6037	2.1783	27.6399	27.6271	86.31	0.41	1.41553
2133.839	2163	2.3883	31.72624	34.6035	2.2317	27.6354	27.6224	85.84	0.41	1.40562
2134.82	2164	2.3725	31.711706	34.602	2.2161	27.6355	27.6225	84.1	0.41	1.41801
2135.802	2165	2.338	31.683651	34.604	2.1821	27.6399	27.627	83.31	0.41	1.41662
2136.783	2166	2.3309	31.678471	34.6048	2.175	27.641	27.6282	81.25	0.41	1.41457
2137.765	2167	2.3548	31.698807	34.6037	2.1984	27.6383	27.6254	81.32	0.41	1.41005
2138.746	2168	2.3638	31.707413	34.6042	2.2072	27.6379	27.625	81.46	0.41	1.41121
2139.728	2169	2.3479	31.691563	34.6012	2.1915	27.6368	27.6239	82.85	0.41	1.41023
2140.709	2170	2.3175	31.666904	34.603	2.1615	27.6407	27.6279	82.93	0.41	1.41144
2141.691	2171	2.4161	31.754917	34.605	2.2583	27.6344	27.6213	81.05	0.41	1.40703
2142.672	2172	2.5682	31.889748	34.607	2.4079	27.6235	27.6099	81.4	0.41	1.39952
2143.654	2173	2.4798	31.802858	34.5948	2.3209	27.621	27.6077	81.01	0.41	1.40431
2144.635	2174	2.3952	31.73753	34.6045	2.2376	27.6357	27.6226	81	0.41	1.40947
2145.617	2175	2.3103	31.661894	34.6021	2.154	27.6406	27.6278	81.04	0.41	1.41289
2146.598	2176	2.1231	31.506889	34.6113	1.9697	27.6627	27.6505	84.04	0.41	1.42263
2147.58	2177	2.2083	31.579298	34.6088	2.0534	27.654	27.6415	86.1	0.41	1.41594
2148.561	2178	2.4835	31.808611	34.5954	2.3241	27.6213	27.6078	84.49	0.41	1.40174
2149.543	2179	2.4433	31.779579	34.6023	2.2844	27.63	27.6168	81.65	0.41	1.41931
2150.524	2180	2.5092	31.839293	34.6044	2.3492	27.6264	27.6129	80.67	0.41	1.40895
2151.506	2181	2.5065	31.836905	34.6039	2.3464	27.6262	27.6127	82.69	0.41	1.41044
2152.487	2182	2.3638	31.715231	34.6069	2.206	27.6402	27.6271	84.6	0.41	1.41788
2153.469	2183	2.2828	31.645704	34.6077	2.1262	27.6473	27.6345	85.82	0.41	1.41591
2154.45	2184	2.2043	31.576725	34.6065	2.0488	27.6526	27.6401	87.31	0.41	1.43189
2155.431	2185	2.1544	31.535347	34.6085	1.9997	27.6581	27.6457	88.65	0.41	1.43179
2156.413	2186	2.1167	31.503281	34.6089	1.9625	27.6614	27.6491	88.97	0.41	1.44052
2157.394	2187	2.1204	31.505262	34.607	1.9661	27.6595	27.6472	89.51	0.41	1.43791
2158.376	2188	2.1355	31.520876	34.6094	1.9809	27.6603	27.648	88.82	0.41	1.439
2159.357	2189	2.2189	31.593405	34.6089	2.0628	27.6534	27.6408	87.76	0.41	1.43273
2160.339	2190	2.1813	31.557529	34.6046	2.0258	27.6529	27.6403	87.94	0.41	1.42927
2161.32	2191	2.2725	31.64024	34.6082	2.1153	27.6486	27.6358	87.54	0.41	1.42329
2162.301	2192	2.1979	31.57465	34.6069	2.0419	27.6534	27.6408	88.01	0.41	1.42711
2163.283	2193	2.1786	31.560541	34.6097	2.0228	27.6572	27.6446	87.57	0.41	1.42445
2164.264	2194	2.2102	31.586714	34.6076	2.0538	27.6531	27.6404	88.46	0.41	1.41915
2165.246	2195	2.2022	31.578949	34.6061	2.0458	27.6525	27.6399	88.42	0.41	1.42076
2166.227	2196	2.1978	31.576778	34.6077	2.0414	27.6541	27.6415	87.23	0.41	1.42141
2167.208	2197	2.3024	31.667242	34.6064	2.1442	27.6448	27.6319	86.43	0.42	1.41244
2168.19	2198	2.2773	31.646378	34.6072	2.1194	27.6475	27.6346	86.96	0.42	1.41734
2169.171	2199	2.2712	31.640394	34.6058	2.1134	27.6469	27.634	87.88	0.42	1.41112
2170.152	2200	2.2486	31.620144	34.6047	2.091	27.6478	27.635	87.43	0.41	1.4127
2171.134	2201	2.2191	31.594555	34.6044	2.0619	27.6498	27.6371	86.06	0.41	1.41043
2172.115	2202	2.2043	31.582792	34.6052	2.0474	27.6516	27.639	87.06	0.41	1.40593
2173.096	2203	2.1042	31.495623	34.6046	1.9488	27.659	27.6466	88.53	0.41	1.40645
2174.078	2204	1.9862	31.396332	34.6082	1.8326	27.6709	27.6589	89.54	0.41	1.40757
2175.059	2205	2.0126	31.420023	34.6086	1.8585	27.6692	27.6571	89.95	0.41	1.39755

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2176.041	2206	1.9828	31.393642	34.6075	1.8291	27.6706	27.6586	90.14	0.41	1.40039
2177.022	2207	1.945	31.361629	34.608	1.7918	27.6739	27.662	90.68	0.41	1.40254
2178.003	2208	2.0294	31.438349	34.6117	1.8747	27.6705	27.6583	91.3	0.41	1.4003
2178.984	2209	2.0503	31.458023	34.6131	1.8952	27.6699	27.6577	91.61	0.41	1.41953
2179.966	2210	2.0322	31.441135	34.6112	1.8773	27.6698	27.6576	91.39	0.41	1.43957
2180.947	2211	2.0147	31.425795	34.6105	1.8601	27.6706	27.6585	91.36	0.41	1.44149
2181.928	2212	1.975	31.38978	34.6082	1.8209	27.6717	27.6598	91.3	0.41	1.44608
2182.91	2213	1.9139	31.339176	34.6106	1.7608	27.6783	27.6665	91.57	0.41	1.44172
2183.891	2214	1.9568	31.376793	34.6107	1.8028	27.6751	27.6632	91.55	0.41	1.44285
2184.872	2215	1.9816	31.400448	34.6128	1.8271	27.675	27.663	91.75	0.41	1.43414
2185.854	2216	2.0439	31.455786	34.6137	1.8883	27.671	27.6588	91.83	0.41	1.44176
2186.835	2217	2.03	31.443132	34.6126	1.8745	27.6712	27.659	91.85	0.41	1.45081
2187.816	2218	2.0172	31.431307	34.6112	1.8619	27.671	27.6588	91.64	0.41	1.45684
2186.835	2217	2.0541	31.46332	34.6117	1.8982	27.6686	27.6563	91.66	0.41	1.45373
2185.854	2216	2.0873	31.492132	34.612	1.931	27.6663	27.6539	91.68	0.41	1.45233
2184.872	2215	2.0647	31.472517	34.6126	1.9088	27.6685	27.6562	91.7	0.41	1.46116
2183.891	2214	2.0584	31.466639	34.6125	1.9028	27.6689	27.6567	91.75	0.41	1.47266
2182.91	2213	2.0327	31.443085	34.6116	1.8775	27.6701	27.6579	91.76	0.41	1.46952
2181.928	2212	2.0309	31.441744	34.6123	1.8759	27.6709	27.6587	91.74	0.41	1.46644
2180.947	2211	1.9351	31.35685	34.6108	1.7818	27.6768	27.665	91.68	0.41	1.46967
2179.966	2210	1.9431	31.363367	34.6107	1.7897	27.6762	27.6643	91.67	0.41	1.4584
2178.984	2209	1.9589	31.37677	34.6108	1.8054	27.675	27.6631	91.69	0.41	1.45718
2178.003	2208	1.9711	31.386581	34.6103	1.8174	27.6737	27.6618	91.58	0.41	1.46175
2177.022	2207	1.9855	31.399343	34.6111	1.8317	27.6733	27.6613	91.49	0.41	1.45819
2176.041	2206	2.0104	31.420055	34.6105	1.8563	27.6709	27.6588	91.36	0.41	1.44964
2175.059	2205	2.0051	31.415234	34.6107	1.8512	27.6714	27.6594	91.35	0.41	1.4468
2174.078	2204	1.9742	31.386726	34.6091	1.8208	27.6725	27.6606	91.31	0.41	1.44033
2173.096	2203	1.9399	31.356443	34.609	1.7872	27.675	27.6632	91.19	0.41	1.44549
2172.115	2202	1.9586	31.372147	34.6088	1.8057	27.6735	27.6616	90.74	0.41	1.4481
2171.134	2201	2.0296	31.43297	34.6083	1.8755	27.6677	27.6556	89.66	0.41	1.44465
2170.152	2200	2.1269	31.514595	34.6052	1.9713	27.6577	27.6453	88.79	0.41	1.43746
2169.171	2199	2.1521	31.537361	34.6066	1.9963	27.6568	27.6444	88.27	0.41	1.43485
2168.19	2198	2.1497	31.53503	34.6068	1.994	27.6572	27.6447	88.14	0.41	1.42876
2167.208	2197	2.1668	31.549721	34.6071	2.0109	27.6561	27.6436	88.01	0.41	1.42297
2166.227	2196	2.192	31.570885	34.6066	2.0357	27.6537	27.6411	88.24	0.41	1.41713
2165.246	2195	2.1954	31.573669	34.6069	2.0392	27.6537	27.6411	88.96	0.41	1.4124
2164.264	2194	2.1679	31.549816	34.6075	2.0122	27.6562	27.6437	88.85	0.41	1.41159
2163.283	2193	2.1632	31.544744	34.6068	2.0077	27.6561	27.6436	88.57	0.41	1.40839
2162.301	2192	2.1837	31.561581	34.6061	2.0279	27.6539	27.6414	88.2	0.41	1.40865
2161.32	2191	2.1774	31.556059	34.6065	2.0218	27.6547	27.6422	88.03	0.41	1.40072
2160.339	2190	2.1814	31.558941	34.6063	2.0258	27.6542	27.6417	88.11	0.41	1.40307
2159.357	2189	2.1735	31.552214	34.6069	2.0182	27.6553	27.6428	88.43	0.41	1.4073
2158.376	2188	2.1346	31.519119	34.6083	1.98	27.6595	27.6471	88.91	0.41	1.40997
2157.394	2187	2.1223	31.508812	34.6093	1.9679	27.6612	27.6489	89.53	0.41	1.40715

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2156.413	2186	2.1541	31.535355	34.6083	1.9994	27.6579	27.6456	89.38	0.41	1.40277
2155.431	2185	2.1529	31.533134	34.6074	1.9982	27.6573	27.645	88.77	0.41	1.3995
2154.45	2184	2.2003	31.573395	34.6067	2.045	27.653	27.6405	88.5	0.41	1.40333
2153.469	2183	2.1908	31.564522	34.6064	2.0357	27.6536	27.6411	87.94	0.41	1.41025
2152.487	2182	2.1886	31.562138	34.6064	2.0336	27.6537	27.6412	87.45	0.41	1.41168
2151.506	2181	2.2115	31.581343	34.6059	2.0563	27.6515	27.639	87.25	0.41	1.41988
2150.524	2180	2.2358	31.60218	34.606	2.0802	27.6497	27.637	87.36	0.41	1.41347
2149.543	2179	2.2951	31.65362	34.6062	2.1387	27.6451	27.6323	87.48	0.41	1.40668
2148.561	2178	2.3424	31.694241	34.606	2.1853	27.6412	27.6282	87.41	0.41	1.40413
2147.58	2177	2.3502	31.700708	34.6061	2.193	27.6406	27.6276	86.85	0.41	1.40359
2146.598	2176	2.3361	31.688841	34.6071	2.1792	27.6425	27.6296	86.6	0.41	1.40417
2145.617	2175	2.3389	31.689966	34.606	2.182	27.6414	27.6285	86.76	0.41	1.40383
2144.635	2174	2.3204	31.674408	34.6071	2.164	27.6438	27.6309	86.64	0.41	1.40614
2143.654	2173	2.3531	31.70101	34.6053	2.1962	27.6397	27.6268	86.41	0.41	1.40902
2142.672	2172	2.3715	31.717129	34.6058	2.2144	27.6387	27.6257	86.06	0.41	1.4115
2141.691	2171	2.3944	31.735203	34.604	2.2371	27.6354	27.6223	85.85	0.41	1.41192
2140.709	2170	2.3363	31.685297	34.6054	2.18	27.6412	27.6283	85.55	0.41	1.41244
2139.728	2169	2.2903	31.64502	34.6057	2.1348	27.6451	27.6323	85.38	0.41	1.41185
2138.746	2168	2.2774	31.633532	34.6059	2.1222	27.6462	27.6335	85.55	0.41	1.41207
2137.765	2167	2.2665	31.623407	34.6056	2.1116	27.6468	27.6342	85.8	0.41	1.41242
2136.783	2166	2.2769	31.631615	34.605	2.1219	27.6455	27.6329	86.04	0.41	1.41168
2135.802	2165	2.3133	31.66218	34.6042	2.1577	27.6419	27.6292	86.07	0.41	1.40871
2134.82	2164	2.3493	31.694162	34.6053	2.1933	27.64	27.6271	85.96	0.41	1.40195
2133.839	2163	2.405	31.739763	34.6022	2.2481	27.633	27.62	84.71	0.41	1.39661
2132.857	2162	2.3758	31.715807	34.6045	2.2195	27.6372	27.6243	83.94	0.41	1.40358
2131.876	2161	2.3948	31.730524	34.6028	2.2383	27.6343	27.6213	84.59	0.41	1.40878
2130.894	2160	2.2258	31.586508	34.6072	2.0721	27.6513	27.6389	84.73	0.41	1.41604
2129.913	2159	2.2123	31.572075	34.6044	2.059	27.6501	27.6377	84.52	0.41	1.40973
2128.931	2158	2.2365	31.592377	34.6039	2.0829	27.6478	27.6353	83.98	0.41	1.39679
2127.95	2157	2.3063	31.652746	34.604	2.1516	27.6423	27.6296	83.65	0.41	1.40015
2126.968	2156	2.3823	31.716936	34.6019	2.2265	27.6345	27.6216	84.14	0.41	1.39274
2125.987	2155	2.2907	31.639425	34.6052	2.1365	27.6445	27.6318	84.71	0.41	1.39677
2125.005	2154	2.2461	31.598289	34.6029	2.0926	27.6462	27.6337	84.6	0.41	1.40306
2124.023	2153	2.033	31.416981	34.6083	1.8831	27.6671	27.6553	87.71	0.41	1.41313
2123.042	2152	1.9838	31.373749	34.6082	1.8348	27.6707	27.6591	89.33	0.41	1.40377
2122.06	2151	1.9748	31.364136	34.6065	1.826	27.67	27.6584	89.94	0.41	1.39382
2121.079	2150	1.965	31.355362	34.6067	1.8165	27.6709	27.6594	90.19	0.41	1.3995
2120.097	2149	1.9601	31.350517	34.6065	1.8117	27.6711	27.6596	90.3	0.41	1.39601
2119.115	2148	1.957	31.347481	34.6065	1.8087	27.6714	27.6599	90.34	0.41	1.39896
2118.134	2147	1.9575	31.3477	34.6067	1.8094	27.6715	27.66	90.48	0.41	1.40566
2117.152	2146	1.9572	31.347075	34.6068	1.8091	27.6716	27.6601	90.48	0.41	1.40585
2116.171	2145	1.9583	31.347813	34.607	1.8103	27.6716	27.6602	90.47	0.41	1.40197
2115.189	2144	1.9587	31.347986	34.6073	1.8108	27.6718	27.6603	90.48	0.41	1.40457
2114.207	2143	1.9583	31.347471	34.6075	1.8105	27.672	27.6606	90.48	0.41	1.40406

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2113.226	2142	1.9582	31.347281	34.6079	1.8105	27.6723	27.6609	90.49	0.41	1.40376
2112.244	2141	1.9462	31.335438	34.6066	1.7988	27.6722	27.6608	90.56	0.41	1.4037
2111.262	2140	1.9468	31.335501	34.6066	1.7994	27.6721	27.6607	90.54	0.41	1.40347
2110.281	2139	1.95	31.338011	34.6067	1.8027	27.672	27.6606	90.33	0.41	1.40309
2109.299	2138	1.9537	31.341314	34.6074	1.8063	27.6723	27.6608	90.22	0.41	1.40269
2108.318	2137	1.9524	31.339756	34.6073	1.8052	27.6723	27.6608	90.2	0.41	1.40254
2107.336	2136	1.9497	31.336573	34.6068	1.8026	27.6721	27.6607	90.2	0.41	1.39896
2106.354	2135	1.9482	31.334656	34.6065	1.8013	27.6719	27.6605	90.16	0.41	1.38959
2105.373	2134	1.9492	31.335114	34.6065	1.8023	27.6718	27.6604	90.11	0.41	1.39013
2104.391	2133	1.948	31.333742	34.6065	1.8012	27.6719	27.6606	90.16	0.41	1.3947
2103.409	2132	1.9536	31.338892	34.6074	1.8068	27.6722	27.6609	90.2	0.41	1.39477
2102.427	2131	1.9542	31.338974	34.6074	1.8074	27.6721	27.6608	90.17	0.41	1.39035
2101.446	2130	1.9501	31.334595	34.6068	1.8035	27.672	27.6606	90.09	0.41	1.37983
2100.464	2129	1.9485	31.332668	34.6066	1.8021	27.672	27.6606	90.1	0.41	1.38355
2099.483	2128	1.9478	31.331537	34.6065	1.8014	27.6719	27.6606	90.11	0.41	1.38059
2098.501	2127	1.9474	31.330803	34.6066	1.8011	27.672	27.6606	90.12	0.41	1.38061
2097.519	2126	1.9474	31.330439	34.6066	1.8011	27.672	27.6607	90.15	0.41	1.38427
2096.538	2125	1.947	31.329632	34.6065	1.8009	27.672	27.6607	90.15	0.41	1.37768
2095.556	2124	1.9489	31.330921	34.6066	1.8028	27.6718	27.6605	90.06	0.41	1.37588
2094.574	2123	1.9486	31.330336	34.6066	1.8027	27.6719	27.6606	89.99	0.41	1.37902
2093.592	2122	1.9485	31.329855	34.6066	1.8027	27.6719	27.6606	89.95	0.41	1.37963
2092.611	2121	1.9487	31.329687	34.6067	1.8029	27.6719	27.6606	89.95	0.41	1.37889
2091.629	2120	1.9487	31.329195	34.6066	1.8029	27.6719	27.6606	89.94	0.41	1.37411
2090.647	2119	1.9485	31.328629	34.6066	1.8029	27.6718	27.6606	89.95	0.41	1.37169
2089.666	2118	1.9485	31.328068	34.6064	1.8029	27.6717	27.6605	89.95	0.41	1.37511
2088.684	2117	1.9487	31.327927	34.6065	1.8032	27.6718	27.6605	89.95	0.41	1.3734
2087.702	2116	1.9489	31.327776	34.6066	1.8035	27.6718	27.6606	89.93	0.41	1.37644
2086.72	2115	1.9487	31.327145	34.6065	1.8034	27.6718	27.6605	89.9	0.41	1.38025
2085.739	2114	1.9487	31.326784	34.6066	1.8034	27.6718	27.6606	89.87	0.41	1.37582
2084.757	2113	1.949	31.3267	34.6066	1.8039	27.6718	27.6605	89.87	0.41	1.37043
2083.775	2112	1.9485	31.325674	34.6064	1.8035	27.6717	27.6604	89.88	0.41	1.36978
2082.793	2111	1.9477	31.3246	34.6064	1.8028	27.6717	27.6605	89.89	0.41	1.36815
2081.812	2110	1.9475	31.324032	34.6064	1.8026	27.6718	27.6605	89.91	0.41	1.37016
2080.83	2109	1.9479	31.323994	34.6065	1.8031	27.6718	27.6605	89.96	0.41	1.3714
2079.848	2108	1.949	31.324512	34.6064	1.8043	27.6716	27.6604	89.9	0.41	1.37152
2078.866	2107	1.9487	31.323996	34.6066	1.804	27.6718	27.6606	89.9	0.41	1.37403
2077.884	2106	1.9484	31.32329	34.6065	1.8039	27.6717	27.6605	89.86	0.41	1.37447
2076.903	2105	1.9488	31.323133	34.6064	1.8044	27.6716	27.6604	89.89	0.41	1.37517
2075.921	2104	1.9494	31.323174	34.6063	1.805	27.6714	27.6603	89.87	0.41	1.37454
2074.939	2103	1.9498	31.323065	34.6062	1.8055	27.6714	27.6602	89.86	0.41	1.37126
2073.957	2102	1.9501	31.322834	34.6061	1.8058	27.6713	27.6601	89.85	0.41	1.37223
2072.975	2101	1.9503	31.322639	34.6062	1.8061	27.6713	27.6601	89.85	0.41	1.36919
2071.994	2100	1.9506	31.322506	34.6061	1.8066	27.6712	27.66	89.85	0.41	1.37392
2071.012	2099	1.951	31.322273	34.606	1.807	27.671	27.6599	89.88	0.41	1.37335

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2070.03	2098	1.951	31.321672	34.6057	1.8071	27.6708	27.6597	89.94	0.41	1.3707
2069.048	2097	1.9511	31.321455	34.6057	1.8073	27.6708	27.6597	89.93	0.41	1.36786
2068.066	2096	1.951	31.320953	34.6058	1.8073	27.6709	27.6597	89.9	0.41	1.3708
2067.084	2095	1.9504	31.319923	34.6057	1.8067	27.6708	27.6597	89.95	0.41	1.36871
2066.103	2094	1.9494	31.318733	34.6057	1.8059	27.6709	27.6598	90.02	0.41	1.36345
2065.121	2093	1.9496	31.318487	34.6057	1.8062	27.6709	27.6597	90.04	0.41	1.36696
2064.139	2092	1.9496	31.317995	34.6056	1.8062	27.6708	27.6597	90.04	0.41	1.36734
2063.157	2091	1.9498	31.317799	34.6056	1.8066	27.6708	27.6596	90.04	0.41	1.36721
2062.175	2090	1.9496	31.317144	34.6055	1.8064	27.6707	27.6596	90.04	0.41	1.36703
2061.193	2089	1.9494	31.316477	34.6054	1.8063	27.6707	27.6596	90.04	0.41	1.36684
2060.211	2088	1.9495	31.316355	34.6056	1.8065	27.6708	27.6597	90.04	0.41	1.36662
2059.229	2087	1.9498	31.316282	34.6057	1.8069	27.6708	27.6598	90.02	0.41	1.3664
2058.248	2086	1.9488	31.314972	34.6057	1.8059	27.6709	27.6598	90.01	0.41	1.36625
2057.266	2085	1.9469	31.312946	34.6057	1.8042	27.671	27.66	90.05	0.41	1.36613
2056.284	2084	1.9462	31.31205	34.6058	1.8036	27.6712	27.6601	90.05	0.41	1.36566
2055.302	2083	1.9476	31.312864	34.6058	1.8051	27.6711	27.66	90.04	0.41	1.36464
2054.32	2082	1.9467	31.311682	34.6058	1.8043	27.6711	27.6601	90.06	0.41	1.36283
2053.338	2081	1.9461	31.310644	34.6056	1.8038	27.671	27.66	90.08	0.41	1.36132
2052.356	2080	1.9469	31.310886	34.6056	1.8046	27.6709	27.6599	90.06	0.41	1.36729
2051.375	2079	1.9469	31.310383	34.6054	1.8047	27.6708	27.6598	90.06	0.41	1.36688
2050.393	2078	1.9472	31.310232	34.6055	1.805	27.6708	27.6598	90.05	0.41	1.36498
2049.411	2077	1.9482	31.310894	34.6057	1.8061	27.6709	27.6599	90.02	0.41	1.36477
2048.429	2076	1.9507	31.312643	34.6056	1.8087	27.6707	27.6596	89.99	0.41	1.36443
2047.447	2075	1.9513	31.312578	34.6054	1.8094	27.6704	27.6594	89.99	0.41	1.3642
2046.465	2074	1.9513	31.31218	34.6054	1.8095	27.6704	27.6594	89.97	0.41	1.364
2045.483	2073	1.9513	31.311855	34.6055	1.8096	27.6705	27.6595	89.96	0.41	1.36379
2044.501	2072	1.9512	31.311272	34.6054	1.8096	27.6704	27.6594	89.96	0.41	1.36365
2043.519	2071	1.9511	31.310747	34.6054	1.8095	27.6704	27.6594	89.98	0.41	1.3636
2042.537	2070	1.9511	31.310389	34.6054	1.8096	27.6704	27.6594	89.97	0.41	1.36351
2041.555	2069	1.9511	31.309814	34.6051	1.8097	27.6702	27.6592	89.97	0.41	1.36332
2040.573	2068	1.9514	31.30979	34.6054	1.81	27.6703	27.6594	90	0.41	1.3631
2039.591	2067	1.9507	31.308706	34.6053	1.8094	27.6703	27.6594	89.99	0.41	1.36186
2038.609	2066	1.9504	31.308142	34.6053	1.8093	27.6704	27.6594	89.97	0.41	1.36058
2037.627	2065	1.9495	31.30685	34.6052	1.8084	27.6703	27.6594	89.95	0.41	1.35706
2036.645	2064	1.9483	31.305584	34.6055	1.8073	27.6706	27.6597	89.98	0.41	1.35876
2035.663	2063	1.9482	31.304993	34.6053	1.8073	27.6705	27.6596	90.03	0.41	1.35754
2034.681	2062	1.9484	31.304792	34.6053	1.8076	27.6705	27.6596	90.01	0.41	1.35847
2033.699	2061	1.9485	31.304424	34.6052	1.8078	27.6704	27.6595	90.03	0.41	1.3558
2032.717	2060	1.9483	31.303837	34.6053	1.8077	27.6704	27.6595	90.04	0.41	1.35859
2031.735	2059	1.9495	31.304657	34.6055	1.8089	27.6705	27.6596	90.03	0.41	1.36008
2030.753	2058	1.9498	31.304506	34.6054	1.8094	27.6704	27.6595	90.02	0.41	1.3595
2029.771	2057	1.9497	31.304037	34.6055	1.8093	27.6705	27.6596	90.02	0.41	1.36192
2028.789	2056	1.9496	31.30337	34.6053	1.8093	27.6703	27.6594	90.03	0.41	1.36458
2027.807	2055	1.9495	31.302948	34.6053	1.8093	27.6703	27.6595	90.04	0.41	1.36168

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2026.825	2054	1.9502	31.303205	34.6053	1.8101	27.6703	27.6594	90.05	0.41	1.35987
2025.843	2053	1.9506	31.303164	34.6055	1.8105	27.6704	27.6595	90.06	0.41	1.36128
2024.861	2052	1.9526	31.30435	34.6052	1.8126	27.67	27.6592	90.06	0.41	1.36049
2023.879	2051	1.9535	31.30481	34.6054	1.8135	27.6701	27.6592	90.05	0.41	1.35984
2022.897	2050	1.9541	31.304708	34.6051	1.8142	27.6698	27.6589	90.05	0.41	1.35962
2021.915	2049	1.9535	31.303951	34.6052	1.8137	27.67	27.6591	90.05	0.41	1.35944
2020.933	2048	1.9531	31.303102	34.6051	1.8134	27.6699	27.659	90.07	0.41	1.35926
2019.951	2047	1.9539	31.303391	34.6051	1.8143	27.6698	27.659	90.06	0.41	1.35901
2018.969	2046	1.9544	31.303286	34.605	1.8148	27.6697	27.6588	90.03	0.41	1.35879
2017.987	2045	1.9542	31.30283	34.6051	1.8148	27.6697	27.6589	90.04	0.41	1.35818
2017.005	2044	1.9541	31.302296	34.605	1.8148	27.6697	27.6589	90.04	0.41	1.35689
2016.023	2043	1.9541	31.301947	34.6051	1.8148	27.6698	27.659	90.05	0.41	1.3555
2015.041	2042	1.9547	31.302189	34.6052	1.8155	27.6698	27.659	90.03	0.41	1.35164
2014.059	2041	1.955	31.301914	34.6051	1.8159	27.6696	27.6588	90.02	0.42	1.35352
2013.077	2040	1.955	31.301367	34.6049	1.8159	27.6695	27.6587	90.02	0.41	1.35561
2012.094	2039	1.9549	31.300825	34.6048	1.816	27.6694	27.6587	90.02	0.41	1.3507
2011.112	2038	1.9546	31.300243	34.6049	1.8157	27.6695	27.6588	90.04	0.41	1.35436
2010.13	2037	1.9545	31.29961	34.6047	1.8158	27.6694	27.6586	90.01	0.41	1.35151
2009.148	2036	1.9557	31.300264	34.6048	1.817	27.6693	27.6585	89.99	0.41	1.35183
2008.166	2035	1.9586	31.302368	34.6048	1.8199	27.6691	27.6583	89.91	0.42	1.34881
2007.184	2034	1.9598	31.303013	34.6047	1.8212	27.6689	27.6582	89.89	0.41	1.34859
2006.202	2033	1.9605	31.303137	34.6047	1.8219	27.6689	27.6581	89.86	0.41	1.35791
2005.22	2032	1.9593	31.301773	34.6047	1.8209	27.669	27.6582	89.94	0.42	1.35596
2004.238	2031	1.9563	31.298809	34.6048	1.818	27.6692	27.6585	90.05	0.41	1.35133
2003.255	2030	1.9567	31.298494	34.6045	1.8185	27.669	27.6582	90.09	0.42	1.35016
2002.273	2029	1.9563	31.297787	34.6045	1.8182	27.669	27.6583	90.12	0.42	1.34765
2001.291	2028	1.9586	31.299173	34.6043	1.8205	27.6687	27.6579	90.15	0.42	1.34646
2000.309	2027	1.9617	31.301445	34.6043	1.8236	27.6684	27.6577	90.13	0.42	1.34857
1999.327	2026	1.9628	31.302065	34.6043	1.8248	27.6684	27.6576	90.05	0.42	1.34839
1998.345	2025	1.9631	31.301991	34.6044	1.8252	27.6684	27.6577	89.95	0.42	1.34818
1997.363	2024	1.9632	31.301619	34.6044	1.8253	27.6684	27.6576	89.89	0.42	1.34797
1996.38	2023	1.9642	31.302137	34.6043	1.8265	27.6682	27.6575	89.86	0.42	1.34779
1995.398	2022	1.9646	31.302099	34.6044	1.827	27.6682	27.6575	89.81	0.42	1.34764
1994.416	2021	1.9644	31.30158	34.6045	1.8268	27.6684	27.6577	89.78	0.42	1.34756
1993.434	2020	1.9647	31.301458	34.6045	1.8272	27.6683	27.6576	89.75	0.42	1.34741
1992.452	2019	1.9655	31.30167	34.6044	1.8281	27.6681	27.6574	89.75	0.42	1.34717
1991.47	2018	1.9662	31.302023	34.6045	1.8289	27.6682	27.6575	89.71	0.42	1.34693
1990.487	2017	1.9665	31.301785	34.6044	1.8293	27.6681	27.6574	89.67	0.42	1.34549
1989.505	2016	1.9665	31.301426	34.6045	1.8293	27.6681	27.6575	89.65	0.42	1.34444
1988.523	2015	1.9666	31.300957	34.6044	1.8294	27.668	27.6574	89.64	0.42	1.34422
1987.541	2014	1.9668	31.300747	34.6043	1.8297	27.668	27.6573	89.66	0.42	1.34247
1986.559	2013	1.9666	31.300081	34.6042	1.8297	27.6679	27.6572	89.68	0.42	1.338
1985.576	2012	1.9671	31.30024	34.6044	1.8302	27.668	27.6574	89.67	0.42	1.34375
1984.594	2011	1.9674	31.300163	34.6044	1.8306	27.668	27.6574	89.65	0.42	1.34657

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1983.612	2010	1.9676	31.299932	34.6044	1.8309	27.668	27.6573	89.63	0.42	1.34243
1982.63	2009	1.9676	31.299442	34.6043	1.831	27.6679	27.6573	89.6	0.42	1.34408
1981.647	2008	1.968	31.299318	34.6043	1.8314	27.6678	27.6572	89.62	0.42	1.34427
1980.665	2007	1.9701	31.300426	34.6039	1.8336	27.6673	27.6567	89.62	0.42	1.34389
1979.683	2006	1.9716	31.30114	34.6037	1.8351	27.6671	27.6564	89.63	0.42	1.34469
1978.701	2005	1.9726	31.301737	34.6038	1.8362	27.6671	27.6565	89.62	0.42	1.33857
1977.719	2004	1.9727	31.301374	34.6037	1.8364	27.667	27.6564	89.62	0.42	1.33925
1976.736	2003	1.9727	31.301004	34.6038	1.8365	27.667	27.6564	89.61	0.42	1.33916
1975.754	2002	1.973	31.300913	34.6038	1.8369	27.667	27.6564	89.59	0.42	1.33409
1974.772	2001	1.9734	31.300735	34.6037	1.8374	27.6669	27.6563	89.61	0.42	1.33273
1973.789	2000	1.9735	31.300392	34.6036	1.8376	27.6668	27.6562	89.61	0.42	1.33646
1972.807	1999	1.9739	31.300297	34.6035	1.8381	27.6667	27.6561	89.62	0.42	1.33651
1971.825	1998	1.9744	31.300175	34.6034	1.8386	27.6666	27.656	89.62	0.42	1.33629
1970.843	1997	1.9742	31.299658	34.6035	1.8385	27.6666	27.656	89.55	0.42	1.3361
1969.86	1996	1.9741	31.299221	34.6035	1.8385	27.6667	27.6561	89.54	0.42	1.33419
1968.878	1995	1.9744	31.298967	34.6033	1.8389	27.6665	27.6559	89.55	0.42	1.33002
1967.896	1994	1.9754	31.299164	34.6031	1.8399	27.6662	27.6556	89.54	0.42	1.33008
1966.913	1993	1.976	31.299166	34.603	1.8405	27.6661	27.6555	89.56	0.42	1.3295
1965.931	1992	1.9754	31.298445	34.6032	1.8401	27.6663	27.6557	89.64	0.42	1.33216
1964.949	1991	1.9752	31.298201	34.6035	1.84	27.6666	27.656	89.61	0.42	1.32992
1963.967	1990	1.976	31.298424	34.6035	1.8408	27.6664	27.6559	89.44	0.42	1.32371
1962.984	1989	1.9765	31.298414	34.6034	1.8414	27.6664	27.6559	89.36	0.42	1.32538
1962.002	1988	1.9777	31.299006	34.6034	1.8427	27.6662	27.6557	89.25	0.42	1.3277
1961.02	1987	1.9789	31.299395	34.603	1.844	27.6658	27.6553	89.18	0.42	1.3275
1960.037	1986	1.9794	31.299456	34.6031	1.8445	27.6659	27.6554	89.19	0.42	1.32729
1959.055	1985	1.9805	31.299644	34.6027	1.8457	27.6654	27.6549	89.23	0.42	1.32718
1958.073	1984	1.9806	31.299196	34.6025	1.8458	27.6653	27.6548	89.32	0.42	1.32699
1957.09	1983	1.9808	31.298689	34.6021	1.8462	27.6649	27.6544	89.44	0.42	1.32678
1956.108	1982	1.9817	31.298605	34.6016	1.8471	27.6645	27.654	89.61	0.42	1.32654
1955.126	1981	1.9816	31.297892	34.6013	1.8471	27.6642	27.6537	90.01	0.42	1.32635
1954.143	1980	1.9806	31.296198	34.6007	1.8462	27.6638	27.6534	90.12	0.42	1.32573
1953.161	1979	1.9805	31.29557	34.6006	1.8462	27.6637	27.6533	90.08	0.42	1.32036
1952.178	1978	1.9812	31.29546	34.6002	1.847	27.6634	27.6529	90.17	0.42	1.3147
1951.196	1977	1.9816	31.295218	34.6	1.8474	27.6632	27.6527	90.17	0.42	1.31574
1950.214	1976	1.9816	31.294823	34.6	1.8475	27.6631	27.6527	90.16	0.42	1.31137
1949.231	1975	1.9813	31.294277	34.6001	1.8473	27.6632	27.6528	90.17	0.42	1.30467
1948.249	1974	1.9812	31.293697	34.6001	1.8473	27.6632	27.6528	90.18	0.42	1.30538
1947.267	1973	1.9811	31.293074	34.5998	1.8473	27.663	27.6526	90.23	0.42	1.29673
1946.284	1972	1.9817	31.292568	34.5991	1.848	27.6624	27.6519	90.28	0.42	1.30047
1945.302	1971	1.9818	31.29178	34.5985	1.8482	27.6619	27.6514	90.36	0.42	1.29833
1944.319	1970	1.9812	31.290297	34.5978	1.8477	27.6614	27.651	90.54	0.42	1.29331
1943.337	1969	1.9806	31.289009	34.5973	1.8472	27.661	27.6506	90.63	0.42	1.29212
1942.355	1968	1.9799	31.287058	34.5962	1.8466	27.6602	27.6498	90.72	0.42	1.29538
1941.372	1967	1.9797	31.286251	34.596	1.8464	27.66	27.6496	90.87	0.42	1.29729

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1940.39	1966	1.9798	31.286287	34.5964	1.8466	27.6603	27.6499	90.92	0.42	1.28404
1939.407	1965	1.9799	31.285696	34.5961	1.8467	27.6601	27.6497	90.92	0.42	1.2768
1938.425	1964	1.9796	31.284483	34.5954	1.8465	27.6595	27.6492	91	0.42	1.26988
1937.443	1963	1.9785	31.282137	34.5942	1.8455	27.6586	27.6483	91.36	0.42	1.26816
1936.46	1962	1.977	31.279882	34.5934	1.8442	27.6581	27.6478	91.52	0.42	1.26882
1935.478	1961	1.9772	31.279356	34.5931	1.8444	27.6579	27.6475	91.53	0.42	1.26574
1934.495	1960	1.977	31.279087	34.5935	1.8444	27.6581	27.6478	91.55	0.42	1.26217
1933.513	1959	1.9763	31.277758	34.593	1.8438	27.6579	27.6475	91.54	0.42	1.26622
1932.53	1958	1.9758	31.27685	34.593	1.8433	27.6578	27.6475	91.65	0.42	1.26195
1931.548	1957	1.9753	31.275862	34.5928	1.8429	27.6577	27.6474	91.77	0.42	1.25117
1930.565	1956	1.9762	31.276598	34.5932	1.8439	27.658	27.6477	91.82	0.42	1.24414
1929.583	1955	1.9748	31.274715	34.5929	1.8426	27.6578	27.6475	91.85	0.42	1.24039
1928.6	1954	1.9741	31.273346	34.5925	1.842	27.6576	27.6473	91.85	0.42	1.23636
1927.618	1953	1.9734	31.272167	34.5923	1.8414	27.6574	27.6472	91.85	0.42	1.23595
1926.635	1952	1.9735	31.271641	34.592	1.8416	27.6572	27.6469	91.9	0.42	1.23713
1925.653	1951	1.9736	31.27124	34.5919	1.8418	27.6571	27.6468	91.9	0.42	1.22825
1924.67	1950	1.9736	31.270931	34.592	1.8418	27.6572	27.6469	91.91	0.42	1.23054
1923.688	1949	1.9729	31.270082	34.5922	1.8412	27.6574	27.6472	91.92	0.42	1.23616
1922.705	1948	1.9729	31.269665	34.5922	1.8413	27.6574	27.6472	91.91	0.42	1.23014
1921.723	1947	1.9728	31.269159	34.5922	1.8413	27.6574	27.6471	91.91	0.42	1.22347
1920.74	1946	1.9725	31.268559	34.5922	1.8411	27.6574	27.6472	91.9	0.42	1.22682
1919.758	1945	1.9724	31.268074	34.5922	1.8411	27.6574	27.6472	91.87	0.42	1.22704
1918.775	1944	1.9726	31.267824	34.5923	1.8413	27.6574	27.6472	91.78	0.42	1.21595
1917.793	1943	1.9731	31.268238	34.5927	1.8419	27.6577	27.6475	91.73	0.42	1.21621
1916.81	1942	1.9734	31.268223	34.5929	1.8423	27.6578	27.6476	91.74	0.42	1.22099
1915.828	1941	1.9744	31.268579	34.5927	1.8434	27.6576	27.6474	91.7	0.42	1.22192
1914.845	1940	1.9745	31.268225	34.5927	1.8436	27.6576	27.6474	91.69	0.42	1.22191
1913.863	1939	1.9747	31.267878	34.5926	1.8438	27.6575	27.6473	91.68	0.42	1.22173
1912.88	1938	1.9746	31.267393	34.5925	1.8438	27.6574	27.6473	91.68	0.42	1.22155
1911.898	1937	1.9746	31.267021	34.5926	1.8439	27.6575	27.6473	91.68	0.42	1.22136
1910.915	1936	1.9748	31.266596	34.5923	1.8442	27.6573	27.6471	91.68	0.42	1.22117
1909.932	1935	1.9748	31.266254	34.5924	1.8442	27.6573	27.6472	91.69	0.42	1.22099
1908.95	1934	1.975	31.265936	34.5923	1.8445	27.6572	27.6471	91.68	0.42	1.22198
1907.967	1933	1.9751	31.265518	34.5922	1.8447	27.6571	27.647	91.68	0.42	1.22106
1906.985	1932	1.9756	31.265373	34.592	1.8452	27.6569	27.6468	91.69	0.42	1.22037
1906.002	1931	1.9757	31.26487	34.5918	1.8454	27.6567	27.6466	91.7	0.42	1.22109
1905.02	1930	1.9755	31.264305	34.5918	1.8453	27.6567	27.6466	91.74	0.42	1.21906
1904.037	1929	1.975	31.263559	34.5919	1.845	27.6568	27.6467	91.76	0.42	1.2199
1903.054	1928	1.9747	31.262745	34.5917	1.8447	27.6567	27.6466	91.79	0.42	1.21972
1902.072	1927	1.9757	31.262768	34.5912	1.8458	27.6562	27.6461	91.81	0.42	1.21953
1901.089	1926	1.9766	31.262928	34.5908	1.8468	27.6558	27.6457	91.84	0.42	1.21934
1900.107	1925	1.9766	31.262491	34.5908	1.8468	27.6559	27.6458	91.92	0.42	1.21925
1899.124	1924	1.9763	31.261652	34.5906	1.8466	27.6557	27.6456	91.99	0.42	1.21909
1898.141	1923	1.9758	31.260715	34.5905	1.8462	27.6556	27.6455	92.02	0.42	1.21897

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1897.159	1922	1.9757	31.260086	34.5904	1.8462	27.6555	27.6454	92.07	0.42	1.21636
1896.176	1921	1.9753	31.2593	34.5902	1.8459	27.6554	27.6454	92.09	0.42	1.21239
1895.194	1920	1.9753	31.258419	34.5897	1.846	27.655	27.6449	92.1	0.42	1.20852
1894.211	1919	1.9752	31.257929	34.5896	1.846	27.6549	27.6449	92.12	0.42	1.20725
1893.228	1918	1.9751	31.257395	34.5896	1.8459	27.655	27.6449	92.06	0.42	1.20986
1892.246	1917	1.9752	31.257057	34.5896	1.8462	27.6549	27.6448	92.13	0.42	1.20609
1891.263	1916	1.9754	31.25675	34.5895	1.8464	27.6548	27.6448	92.14	0.42	1.20236
1890.28	1915	1.9757	31.256491	34.5894	1.8468	27.6547	27.6447	92.15	0.42	1.20141
1889.298	1914	1.9758	31.25625	34.5895	1.8469	27.6548	27.6447	92.15	0.42	1.20181
1888.315	1913	1.9761	31.256006	34.5893	1.8474	27.6546	27.6446	92.16	0.42	1.20322
1887.332	1912	1.9768	31.256067	34.5891	1.8482	27.6544	27.6443	92.17	0.42	1.1981
1886.35	1911	1.9774	31.255892	34.5888	1.8488	27.6541	27.6441	92.2	0.42	1.19236
1885.367	1910	1.9777	31.255594	34.5886	1.8491	27.6539	27.6439	92.23	0.42	1.19416
1884.384	1909	1.9799	31.256817	34.5882	1.8515	27.6534	27.6434	92.31	0.42	1.19683
1883.402	1908	1.9846	31.259872	34.5875	1.8561	27.6525	27.6424	92.27	0.42	1.19606
1882.419	1907	1.9864	31.260818	34.5872	1.858	27.6521	27.6421	92.28	0.42	1.19602
1881.436	1906	1.9864	31.260448	34.5873	1.8581	27.6522	27.6421	92.3	0.42	1.19131
1880.454	1905	1.987	31.260546	34.5872	1.8588	27.652	27.642	92.29	0.42	1.18331
1879.471	1904	1.9875	31.260559	34.5872	1.8593	27.652	27.642	92.27	0.42	1.18461
1878.488	1903	1.9885	31.260878	34.587	1.8604	27.6518	27.6418	92.26	0.42	1.18792
1877.505	1902	1.9885	31.260548	34.5871	1.8605	27.6518	27.6418	92.26	0.42	1.18589
1876.523	1901	1.9884	31.260048	34.5871	1.8604	27.6518	27.6419	92.27	0.42	1.17672
1875.54	1900	1.9885	31.259645	34.587	1.8607	27.6517	27.6417	92.3	0.42	1.17996
1874.557	1899	1.9882	31.259079	34.5871	1.8604	27.6518	27.6419	92.31	0.42	1.1726
1873.575	1898	1.9872	31.257845	34.5871	1.8596	27.6519	27.6419	92.31	0.42	1.16712
1872.592	1897	1.9871	31.257008	34.5867	1.8596	27.6516	27.6416	92.35	0.42	1.17022
1871.609	1896	1.9873	31.256683	34.5866	1.8598	27.6515	27.6415	92.36	0.42	1.17455
1870.626	1895	1.9878	31.256414	34.5863	1.8603	27.6512	27.6412	92.37	0.42	1.17472
1869.644	1894	1.9881	31.256142	34.5861	1.8608	27.651	27.641	92.45	0.42	1.17476
1868.661	1893	1.9882	31.255697	34.5859	1.861	27.6508	27.6409	92.5	0.42	1.17469
1867.678	1892	1.9892	31.255856	34.5855	1.862	27.6504	27.6405	92.49	0.42	1.17407
1866.695	1891	1.9894	31.255371	34.5853	1.8623	27.6502	27.6403	92.49	0.42	1.16862
1865.713	1890	1.9898	31.255264	34.5852	1.8628	27.6501	27.6402	92.5	0.42	1.1667
1864.73	1889	1.9901	31.2551	34.5852	1.8631	27.6501	27.6402	92.5	0.42	1.16274
1863.747	1888	1.9901	31.254644	34.5852	1.8632	27.65	27.6401	92.5	0.42	1.16239
1862.764	1887	1.9907	31.254576	34.5849	1.8639	27.6498	27.6398	92.5	0.42	1.16545
1861.781	1886	1.992	31.255318	34.5849	1.8653	27.6497	27.6398	92.5	0.42	1.16687
1860.799	1885	1.9932	31.255785	34.5847	1.8665	27.6494	27.6395	92.49	0.42	1.16665
1859.816	1884	1.9942	31.25606	34.5844	1.8676	27.6491	27.6392	92.49	0.42	1.16217
1858.833	1883	1.9952	31.256231	34.5841	1.8686	27.6488	27.6389	92.5	0.42	1.15198
1857.85	1882	1.9958	31.256243	34.584	1.8694	27.6486	27.6387	92.5	0.42	1.15488
1856.868	1881	1.9962	31.256224	34.584	1.8699	27.6486	27.6387	92.51	0.42	1.15915
1855.885	1880	1.9972	31.256416	34.5837	1.8709	27.6483	27.6384	92.51	0.42	1.15918
1854.902	1879	1.9977	31.256281	34.5835	1.8715	27.648	27.6382	92.51	0.42	1.1585

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1853.919	1878	1.998	31.256207	34.5836	1.8718	27.6481	27.6382	92.51	0.42	1.15204
1852.936	1877	1.9981	31.255774	34.5834	1.872	27.648	27.6381	92.51	0.42	1.14806
1851.953	1876	1.9983	31.255569	34.5835	1.8723	27.648	27.6381	92.51	0.42	1.14625
1850.971	1875	1.9985	31.255302	34.5834	1.8726	27.6479	27.6381	92.52	0.42	1.14848
1849.988	1874	1.9988	31.254946	34.5832	1.8729	27.6477	27.6379	92.52	0.42	1.14884
1849.005	1873	1.9992	31.254873	34.5832	1.8734	27.6476	27.6378	92.53	0.42	1.14384
1848.022	1872	1.9995	31.254732	34.5831	1.8738	27.6476	27.6378	92.53	0.42	1.14221
1847.039	1871	1.9997	31.254473	34.5831	1.8741	27.6475	27.6377	92.53	0.42	1.14167
1846.056	1870	1.9998	31.254015	34.583	1.8742	27.6474	27.6376	92.53	0.42	1.14115
1845.073	1869	2	31.253721	34.5828	1.8746	27.6473	27.6375	92.54	0.42	1.14354
1844.091	1868	2.0003	31.253521	34.5827	1.875	27.6472	27.6374	92.54	0.42	1.14311
1843.108	1867	2.0008	31.253458	34.5827	1.8755	27.6471	27.6373	92.56	0.42	1.1369
1842.125	1866	2.0018	31.253906	34.5827	1.8765	27.647	27.6372	92.56	0.42	1.13428
1841.142	1865	2.0029	31.254217	34.5824	1.8777	27.6467	27.6369	92.55	0.42	1.13315
1840.159	1864	2.0032	31.253929	34.5822	1.8781	27.6465	27.6367	92.55	0.42	1.13298
1839.176	1863	2.0035	31.253742	34.5821	1.8785	27.6464	27.6366	92.54	0.42	1.13497
1838.193	1862	2.0037	31.253521	34.5821	1.8788	27.6464	27.6366	92.54	0.42	1.13668
1837.21	1861	2.0047	31.253771	34.5819	1.8798	27.6462	27.6364	92.53	0.42	1.13649
1836.228	1860	2.0056	31.253962	34.5816	1.8808	27.6458	27.6361	92.52	0.42	1.13595
1835.245	1859	2.0057	31.253687	34.5817	1.881	27.6459	27.6361	92.52	0.42	1.12974
1834.262	1858	2.007	31.254257	34.5815	1.8824	27.6456	27.6358	92.52	0.42	1.12405
1833.279	1857	2.008	31.254368	34.5811	1.8834	27.6453	27.6355	92.53	0.42	1.12494
1832.296	1856	2.0094	31.255053	34.581	1.8848	27.645	27.6353	92.54	0.42	1.12819
1831.313	1855	2.0112	31.255756	34.5804	1.8867	27.6444	27.6347	92.56	0.42	1.12895
1830.33	1854	2.0124	31.256186	34.5801	1.888	27.644	27.6343	92.57	0.42	1.12741
1829.347	1853	2.0159	31.258169	34.5793	1.8915	27.6432	27.6334	92.61	0.42	1.12274
1828.364	1852	2.0202	31.26088	34.5785	1.8959	27.6422	27.6324	92.62	0.42	1.11678
1827.381	1851	2.0227	31.262177	34.5779	1.8984	27.6415	27.6318	92.62	0.42	1.11452
1826.398	1850	2.0236	31.262413	34.5778	1.8994	27.6413	27.6316	92.62	0.42	1.11755
1825.415	1849	2.0244	31.26251	34.5776	1.9002	27.6411	27.6314	92.63	0.42	1.11962
1824.432	1848	2.0257	31.263002	34.5773	1.9016	27.6408	27.631	92.67	0.42	1.12078
1823.449	1847	2.0279	31.264109	34.5768	1.9039	27.6402	27.6304	92.67	0.42	1.11279
1822.466	1846	2.0285	31.263945	34.5764	1.9046	27.6398	27.6301	92.67	0.42	1.10494
1821.483	1845	2.0272	31.262701	34.5768	1.9033	27.6403	27.6305	92.67	0.42	1.09892
1820.5	1844	2.027	31.262054	34.5767	1.9032	27.6402	27.6305	92.67	0.42	1.09182
1819.517	1843	2.0267	31.261555	34.5769	1.903	27.6403	27.6306	92.67	0.42	1.09052
1818.535	1842	2.0272	31.261454	34.5767	1.9036	27.6402	27.6304	92.67	0.42	1.08502
1817.552	1841	2.0276	31.261389	34.5768	1.9041	27.6401	27.6304	92.67	0.42	1.08147
1816.568	1840	2.0278	31.260946	34.5765	1.9043	27.6399	27.6302	92.67	0.42	1.07789
1815.586	1839	2.0274	31.260334	34.5767	1.904	27.6401	27.6304	92.67	0.42	1.0796
1814.603	1838	2.0272	31.259892	34.5769	1.9039	27.6402	27.6306	92.67	0.42	1.07937
1813.62	1837	2.0279	31.260004	34.5767	1.9047	27.6401	27.6304	92.65	0.42	1.0734
1812.636	1836	2.0299	31.261124	34.5764	1.9068	27.6397	27.63	92.63	0.42	1.07281
1811.653	1835	2.0328	31.262917	34.5761	1.9097	27.6392	27.6295	92.62	0.42	1.07801

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1810.671	1834	2.0346	31.263781	34.5757	1.9115	27.6387	27.6291	92.63	0.42	1.07978
1809.688	1833	2.0353	31.263845	34.5755	1.9124	27.6385	27.6288	92.64	0.42	1.0745
1808.704	1832	2.0356	31.263647	34.5755	1.9127	27.6385	27.6288	92.64	0.42	1.06656
1807.721	1831	2.0354	31.263147	34.5756	1.9126	27.6385	27.6288	92.66	0.42	1.06741
1806.738	1830	2.0357	31.262875	34.5755	1.9129	27.6384	27.6287	92.66	0.42	1.07162
1805.755	1829	2.0365	31.263039	34.5753	1.9138	27.6382	27.6285	92.66	0.42	1.07177
1804.772	1828	2.0379	31.26379	34.5751	1.9153	27.638	27.6283	92.65	0.42	1.06399
1803.789	1827	2.0399	31.264858	34.5749	1.9173	27.6376	27.6279	92.66	0.42	1.05873
1802.806	1826	2.0407	31.264973	34.5746	1.9182	27.6373	27.6277	92.66	0.42	1.05895
1801.823	1825	2.0423	31.265844	34.5745	1.9199	27.6371	27.6275	92.66	0.42	1.06274
1800.84	1824	2.0471	31.268862	34.5737	1.9246	27.636	27.6264	92.67	0.42	1.06459
1799.857	1823	2.0492	31.270142	34.5734	1.9269	27.6357	27.626	92.68	0.42	1.0618
1798.874	1822	2.0502	31.270302	34.5731	1.9279	27.6353	27.6257	92.68	0.42	1.05705
1797.891	1821	2.0512	31.270601	34.5728	1.929	27.6351	27.6254	92.71	0.42	1.05218
1796.908	1820	2.0533	31.271658	34.5724	1.9311	27.6346	27.6249	92.72	0.42	1.05368
1795.925	1819	2.0552	31.272707	34.5722	1.933	27.6342	27.6246	92.7	0.42	1.05237
1794.942	1818	2.0584	31.27486	34.5719	1.9364	27.6337	27.6241	92.71	0.42	1.04308
1793.958	1817	2.0602	31.275688	34.5715	1.9382	27.6332	27.6236	92.72	0.42	1.04387
1792.975	1816	2.0617	31.276438	34.5713	1.9398	27.633	27.6233	92.72	0.42	1.03965
1791.992	1815	2.064	31.277792	34.571	1.9421	27.6326	27.6229	92.72	0.42	1.03559
1791.009	1814	2.0662	31.279087	34.5707	1.9444	27.6322	27.6225	92.72	0.42	1.03864
1790.026	1813	2.0685	31.280205	34.5702	1.9466	27.6316	27.622	92.73	0.42	1.03092
1789.043	1812	2.0705	31.281322	34.5699	1.9487	27.6312	27.6215	92.72	0.42	1.02676
1788.06	1811	2.0713	31.281446	34.5697	1.9496	27.6309	27.6213	92.74	0.42	1.02923
1787.077	1810	2.0718	31.281483	34.5697	1.9502	27.6309	27.6213	92.73	0.42	1.02536
1786.094	1809	2.0715	31.280857	34.5698	1.95	27.631	27.6214	92.73	0.42	1.02105
1785.11	1808	2.0713	31.280199	34.5697	1.9498	27.6309	27.6213	92.73	0.42	1.01397
1784.127	1807	2.0714	31.279896	34.5697	1.95	27.6309	27.6213	92.74	0.42	1.01491
1783.144	1806	2.0715	31.279467	34.5696	1.9502	27.6308	27.6212	92.74	0.42	1.0112
1782.161	1805	2.0714	31.279139	34.5697	1.9502	27.6309	27.6213	92.74	0.42	1.00824
1781.178	1804	2.0716	31.278728	34.5696	1.9504	27.6308	27.6212	92.73	0.42	1.0055
1780.195	1803	2.0715	31.278288	34.5696	1.9505	27.6308	27.6212	92.73	0.42	0.99506
1779.211	1802	2.0718	31.278109	34.5696	1.9509	27.6307	27.6211	92.75	0.42	0.99135
1778.228	1801	2.072	31.277906	34.5696	1.9511	27.6307	27.6212	92.75	0.42	0.99813
1777.245	1800	2.0723	31.277681	34.5695	1.9515	27.6306	27.6211	92.74	0.42	1.00288
1776.262	1799	2.0726	31.277466	34.5695	1.9519	27.6306	27.621	92.75	0.42	1.00325
1775.279	1798	2.0727	31.277119	34.5694	1.9521	27.6305	27.621	92.73	0.42	1.00309
1774.296	1797	2.073	31.27688	34.5693	1.9524	27.6304	27.6209	92.74	0.42	1.0011
1773.312	1796	2.0738	31.27714	34.5692	1.9533	27.6303	27.6207	92.75	0.42	0.99805
1772.329	1795	2.074	31.276834	34.5692	1.9535	27.6302	27.6207	92.74	0.42	0.99509
1771.346	1794	2.074	31.276403	34.5691	1.9537	27.6302	27.6206	92.74	0.42	0.99038
1770.363	1793	2.074	31.275986	34.5692	1.9537	27.6302	27.6206	92.74	0.42	0.99127
1769.38	1792	2.0741	31.275572	34.569	1.9539	27.6301	27.6205	92.75	0.42	0.99521
1768.396	1791	2.074	31.27503	34.569	1.9539	27.63	27.6205	92.74	0.42	0.99566

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	Transmiss- ometer	Backs- catterance	oxygen
salt water		primary IPTS-68	primary	PSS- 78	primary IPTS- 68	sigma- θ	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m ³]	[kg/m ³]			[ml/l]
1767.413	1790	2.0746	31.275093	34.5689	1.9546	27.6299	27.6204	92.73	0.42	0.99549
1766.43	1789	2.0772	31.276808	34.5687	1.9572	27.6295	27.62	92.74	0.42	0.99464
1765.447	1788	2.081	31.279198	34.5681	1.9611	27.6287	27.6192	92.74	0.42	0.98911
1764.463	1787	2.0832	31.280481	34.5678	1.9633	27.6284	27.6189	92.74	0.42	0.98689
1763.48	1786	2.0827	31.279728	34.5679	1.9629	27.6285	27.619	92.74	0.42	0.98715
1762.497	1785	2.0839	31.280165	34.5676	1.9642	27.6281	27.6186	92.74	0.42	0.98626
1761.514	1784	2.084	31.279799	34.5677	1.9643	27.6282	27.6187	92.74	0.42	0.98389
1760.53	1783	2.0839	31.279329	34.5676	1.9643	27.6281	27.6186	92.74	0.42	0.9852
1759.547	1782	2.084	31.279058	34.5678	1.9645	27.6282	27.6187	92.73	0.42	0.98695
1758.564	1781	2.0843	31.278786	34.5676	1.9649	27.628	27.6186	92.76	0.42	0.98772

University of Washington									
CTD Log									
Page 1 of 3									
Cruise Information			Station Information			Instrumentation			
Ship Name: R/V Thomas G. Thompson			Station Name: Station 1			CTD Type: SBE 911+			
Cruise Name: RIDGE			Station Number: 001			Configuration: CC, TT, P, Tr, Bs			
Cruise Number: TN114			Cast Number: 02			Water Depth (Meters):			
Observer's Name: B. Martin			GMT Date: 28/07/00			Data Filename: 11400102.DAT			
GMT Start: 18:28:44			GMT Finish: 19:20:32			Audio Tape Number:			
Latitude Start: N 47 56.9577			Latitude Finish: N 47 56.9625			Audio Tape Start:			
Longitude Start: W 129 05.8789			Longitude Finish: W 129 05.8752			Audio Tape Finish:			
CTD Data									
Bottle Position	Serial No.	Depth (Meters)	Pressure (db)	Temp1 (Deg. C)	Temp2 (Deg. C)	Cond1 (ms/cm)	Cond2 (ms/cm)	Salinity1 (PSU)	Salinity2 (PSU)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Summary Data Table CTD Cast 2

Ship: R/V Thomas G. Thompson

Cruise number: TN114

Cruise name: RIDGE Program July, 2000

Jul 28 2000 18:30:37

Latitude = 47 56.95 N

Longitude = 129 05.87 W

Sea-Bird SBE 9 Raw Data File:

FileName = G:\11400102.dat
Software Version Seasave Win32 v1.05
bad_flag = -9.990e-29

Temperature SN = 1316
Conductivity SN = 0855

Sensor List:

sensor 0 = Frequency 0 temperature, primary, 1316
sensor 1 = Frequency 1 conductivity, primary, 0855, cpcor = -9.5700e-08
sensor 2 = Frequency 2 pressure, 57657, 27-May-1999
sensor 3 = Frequency 3 temperature, secondary, 1605
sensor 4 = Frequency 4 conductivity, secondary, 1698, cpcor = -9.5700e-08
sensor 5 = Extrnl Volt 0 oxygen, current, 130229, 24-Feb-2000
sensor 6 = Extrnl Volt 1 oxygen, temperature, 130229, 24-Feb-2000
sensor 7 = Extrnl Volt 2 backscatterance, 239
sensor 8 = Extrnl Volt 3 transmissometer, 148D, 23-Feb-96
sensor 9 = Extrnl Volt 6 altimeter

Raw data converted Jul 29 2000 21:03:47, 4.233 using the input files 11400102.DAT 11400102.CON

Editing for wild data on Jul 29 2000 21:04:15, 4.233 using the file 11400102.CNV

```
# wildedit_pass1_nstd = 2.0
# wildedit_pass2_nstd = 20.0
# wildedit_npoint = 10
# wildedit_vars = t068 c0mS/cm pr t168 c1mS/cm oxML/L xmiss obs
# wildedit_excl_bad_scans = yes
# celltm_date = Jul 29 2000 21:04:33, 4.233
# celltm_in = 11400102.CNV
# celltm_alpha = 0.0300, 0.0300
# celltm_tau = 7.0000, 7.0000
# celltm_temp_sensor_use_for_cond = primary, secondary
# filter_date = Jul 29 2000 21:04:48, 4.233
# filter_in = 11400102.CNV
# filter_low_pass_tc_A = 0.030
# filter_low_pass_tc_B = 0.150
# filter_low_pass_A_vars = c0mS/cm c1mS/cm
# filter_low_pass_B_vars = pr
# loopedit_date = Jul 29 2000 21:05:17, 4.233
# loopedit_in = 11400102.CNV
# loopedit_minVelocity = 0.000
# loopedit_excl_bad_scans = yes
# binavg_date = Jul 29 2000 21:05:38, 4.233
# binavg_in = 11400102.CNV
# binavg_bintype = Pressure Bins
# binavg_binsize = 1.00
# binavg_excl_bad_scans = no
# binavg_downcast_only = no
# binavg_skipover = 0
# binavg_surface_bin = no, min = 0.000, max = 0.000, value = 0.000
# derive_date = Jul 29 2000 21:05:54, 4.233
# derive_in = 11400102.CNV 11400102.CON
```

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
0.992	1	15.9729	40.851170	32.3161	15.9727	23.6911	23.6911	87.45	0.08	5.71310
1.983	2	16.0013	40.879467	32.3176	16.0010	23.6859	23.6858	87.43	0.09	5.72756
2.975	3	15.9996	40.878220	32.3175	15.9991	23.6862	23.6861	87.41	0.09	5.72099
3.966	4	16.0002	40.879238	32.3175	15.9996	23.6861	23.6860	87.38	0.09	5.74321
4.958	5	15.9757	40.856636	32.3172	15.9749	23.6914	23.6912	87.34	0.09	5.73588

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
5.950	6	15.9705	40.852661	32.3175	15.9696	23.6928	23.6926	87.28	0.09	5.72311
6.941	7	15.9656	40.848587	32.3176	15.9645	23.6940	23.6938	87.33	0.09	5.72653
7.933	8	15.9832	40.865189	32.3175	15.9820	23.6901	23.6898	87.33	0.09	5.73826
8.924	9	15.9845	40.866913	32.3176	15.9831	23.6899	23.6896	87.34	0.09	5.74068
9.916	10	15.9818	40.864971	32.3177	15.9803	23.6906	23.6903	87.36	0.09	5.73491
10.907	11	15.9786	40.862305	32.3176	15.9769	23.6913	23.6909	87.33	0.09	5.73020
11.899	12	15.9758	40.860085	32.3175	15.9740	23.6919	23.6915	87.33	0.09	5.73443
12.891	13	15.9779	40.862114	32.3172	15.9759	23.6912	23.6907	87.28	0.08	5.73352
13.882	14	15.9536	40.839668	32.3169	15.9515	23.6964	23.6959	87.27	0.09	5.73737
14.874	15	15.9216	40.810184	32.3166	15.9193	23.7034	23.7029	87.26	0.09	5.73533
15.865	16	15.8275	40.719109	32.3124	15.8251	23.7212	23.7206	87.13	0.09	5.75533
16.857	17	15.6730	40.577583	32.3129	15.6704	23.7559	23.7553	87.12	0.09	5.78223
17.848	18	15.3232	40.251163	32.3085	15.3205	23.8292	23.8286	87.06	0.10	5.85086
18.840	19	15.1815	40.112553	32.3006	15.1787	23.8539	23.8533	87.04	0.10	5.97093
19.831	20	14.8469	39.824867	32.3174	14.8440	23.9388	23.9382	86.91	0.10	6.09982
20.823	21	14.5293	39.601486	32.3784	14.5263	24.0532	24.0525	86.61	0.11	6.11631
21.814	22	14.3303	39.491993	32.4446	14.3271	24.1459	24.1453	85.89	0.11	6.20746
22.806	23	14.0647	39.283077	32.4756	14.0614	24.2250	24.2243	85.16	0.12	6.37239
23.797	24	13.9865	39.225391	32.4880	13.9831	24.2507	24.2500	84.60	0.13	6.53170
24.789	25	13.6671	38.970112	32.5216	13.6637	24.3418	24.3411	84.41	0.13	6.60072
25.780	26	13.4720	38.806000	32.5343	13.4684	24.3910	24.3903	84.14	0.13	6.60945
26.772	27	13.2460	38.626759	32.5591	13.2423	24.4553	24.4546	84.09	0.13	6.66894
27.763	28	13.2182	38.606121	32.5631	13.2144	24.4640	24.4632	84.22	0.13	6.67201
28.755	29	13.2001	38.594696	32.5675	13.1962	24.4710	24.4702	84.27	0.13	6.72629
29.746	30	13.0180	38.446293	32.5836	13.0140	24.5193	24.5185	84.33	0.13	6.75235
30.738	31	12.8021	38.263771	32.5964	12.7980	24.5714	24.5706	83.26	0.15	6.79830
31.729	32	12.6090	38.098866	32.6061	12.6048	24.6163	24.6155	80.94	0.18	6.82928
32.721	33	12.4607	37.968014	32.6093	12.4564	24.6473	24.6464	79.51	0.19	6.93828
33.712	34	12.1040	37.657803	32.6215	12.0997	24.7242	24.7234	78.97	0.20	6.98845
34.704	35	12.0113	37.574390	32.6216	12.0068	24.7416	24.7408	77.09	0.23	6.92466
35.695	36	11.7378	37.336052	32.6297	11.7333	24.7986	24.7978	73.85	0.32	6.82842
36.686	37	11.6060	37.224468	32.6365	11.6015	24.8280	24.8271	74.15	0.34	6.67146
37.678	38	11.5078	37.140209	32.6403	11.5031	24.8488	24.8480	79.34	0.24	6.48574
38.669	39	11.3755	37.021969	32.6408	11.3708	24.8732	24.8723	83.77	0.16	6.49284
39.661	40	11.2308	36.892254	32.6409	11.2260	24.8992	24.8984	86.57	0.12	6.53752
40.652	41	11.1052	36.781033	32.6422	11.1002	24.9227	24.9218	88.15	0.10	6.53982
41.644	42	10.9748	36.663826	32.6417	10.9698	24.9453	24.9445	89.12	0.08	6.58431
42.635	43	10.5965	36.324123	32.6407	10.5915	25.0105	25.0096	89.61	0.08	6.66408
43.626	44	10.3141	36.083458	32.6522	10.3090	25.0677	25.0668	90.31	0.07	6.67035
44.618	45	10.1166	35.912601	32.6572	10.1116	25.1048	25.1040	90.85	0.06	6.72865
45.609	46	10.0267	35.831406	32.6558	10.0215	25.1187	25.1179	91.04	0.06	6.70574
46.601	47	9.8123	35.642769	32.6577	9.8071	25.1556	25.1548	91.20	0.05	6.77053
47.592	48	9.6262	35.480679	32.6607	9.6210	25.1883	25.1875	91.45	0.05	6.76919
48.583	49	9.5257	35.393177	32.6620	9.5204	25.2057	25.2048	91.73	0.04	6.74476

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m ³]	[kg/m ³]			[ml/l]
49.575	50	9.4589	35.335297	32.6630	9.4535	25.2172	25.2163	91.77	0.04	6.76394
50.566	51	9.4235	35.304695	32.6634	9.4180	25.2232	25.2223	91.83	0.04	6.73990
51.557	52	9.3901	35.275669	32.6636	9.3845	25.2287	25.2278	91.87	0.04	6.77268
52.549	53	9.3553	35.245914	32.6642	9.3497	25.2348	25.2339	91.86	0.04	6.77743
53.540	54	9.3473	35.240490	32.6655	9.3416	25.2371	25.2361	91.91	0.04	6.74862
54.531	55	9.3194	35.216003	32.6653	9.3136	25.2414	25.2404	91.90	0.06	6.74817
55.523	56	9.3020	35.200649	32.6650	9.2961	25.2439	25.2429	91.93	0.04	6.76370
56.514	57	9.2527	35.157444	32.6650	9.2467	25.2517	25.2508	91.98	0.04	6.75633
57.505	58	9.1895	35.101391	32.6645	9.1834	25.2613	25.2603	92.02	0.04	6.75308
58.497	59	9.1362	35.054024	32.6639	9.1300	25.2692	25.2683	92.12	0.04	6.74343
59.488	60	9.0797	35.004078	32.6635	9.0734	25.2778	25.2768	92.17	0.04	6.73569
60.479	61	9.0502	34.977890	32.6629	9.0438	25.2819	25.2809	92.17	0.03	6.72514
61.471	62	9.0056	34.938293	32.6622	8.9992	25.2884	25.2874	92.17	0.03	6.74111
62.462	63	8.9653	34.902493	32.6616	8.9588	25.2942	25.2932	92.19	0.04	6.73944
63.453	64	8.9345	34.875225	32.6611	8.9278	25.2986	25.2976	92.20	0.03	6.73599
64.445	65	8.9220	34.864861	32.6614	8.9152	25.3008	25.2997	92.26	0.03	6.72503
65.436	66	8.9079	34.853012	32.6615	8.9011	25.3031	25.3020	92.19	0.04	6.74341
66.427	67	8.8675	34.818741	32.6626	8.8606	25.3101	25.3090	92.25	0.03	6.73624
67.419	68	8.7749	34.739780	32.6650	8.7679	25.3263	25.3252	92.32	0.03	6.74590
68.410	69	8.7252	34.695770	32.6644	8.7182	25.3334	25.3323	92.42	0.03	6.68659
69.401	70	8.6406	34.622349	32.6652	8.6334	25.3469	25.3458	92.49	0.03	6.69511
70.392	71	8.6012	34.588779	32.6659	8.5940	25.3534	25.3523	92.56	0.03	6.65111
71.384	72	8.5529	34.545822	32.6651	8.5456	25.3601	25.3590	92.56	0.03	6.63183
72.375	73	8.4733	34.477253	32.6661	8.4660	25.3729	25.3718	92.58	0.03	6.63310
73.366	74	8.4370	34.446007	32.6664	8.4296	25.3786	25.3775	92.58	0.03	6.63405
74.357	75	8.3658	34.383003	32.6655	8.3584	25.3885	25.3874	92.49	0.03	6.62859
75.349	76	8.3290	34.351620	32.6661	8.3214	25.3945	25.3933	92.50	0.03	6.66175
76.340	77	8.3122	34.337776	32.6666	8.3046	25.3973	25.3962	92.50	0.03	6.72065
77.331	78	8.3050	34.332043	32.6668	8.2973	25.3986	25.3974	92.52	0.03	6.72037
78.322	79	8.2936	34.322437	32.6667	8.2858	25.4002	25.3990	92.50	0.03	6.72111
79.314	80	8.2618	34.297050	32.6690	8.2539	25.4067	25.4056	92.50	0.03	6.76027
80.305	81	8.2348	34.274105	32.6694	8.2268	25.4110	25.4098	92.51	0.03	6.73275
81.296	82	8.1987	34.243877	32.6705	8.1906	25.4172	25.4160	92.53	0.03	6.75238
82.287	83	8.1841	34.231964	32.6710	8.1760	25.4197	25.4185	92.52	0.03	6.72953
83.279	84	8.1755	34.224850	32.6710	8.1672	25.4210	25.4198	92.51	0.03	6.71130
84.270	85	8.1594	34.211258	32.6711	8.1511	25.4235	25.4222	92.50	0.03	6.73053
85.261	86	8.1468	34.200882	32.6714	8.1383	25.4256	25.4243	92.49	0.03	6.71385
86.252	87	8.1321	34.188950	32.6720	8.1235	25.4282	25.4269	92.49	0.03	6.72216
87.243	88	8.1168	34.176437	32.6725	8.1082	25.4308	25.4296	92.51	0.03	6.72155
88.235	89	8.0900	34.153770	32.6729	8.0813	25.4351	25.4338	92.50	0.03	6.75568
89.226	90	8.0774	34.143333	32.6731	8.0686	25.4371	25.4358	92.51	0.06	6.72821
90.217	91	8.0604	34.128872	32.6731	8.0516	25.4395	25.4382	92.50	0.03	6.69709
91.208	92	8.0435	34.115299	32.6739	8.0346	25.4427	25.4414	92.52	0.03	6.74030
92.199	93	8.0098	34.088520	32.6764	8.0008	25.4496	25.4482	92.50	0.03	6.73182

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
93.190	94	7.9770	34.060982	32.6773	7.9679	25.4550	25.4536	92.51	0.03	6.73257
94.182	95	7.9477	34.035782	32.6773	7.9385	25.4593	25.4579	92.54	0.03	6.71489
95.173	96	7.8904	33.989750	32.6814	7.8811	25.4707	25.4693	92.55	0.03	6.72114
96.164	97	7.8848	33.988461	32.6847	7.8755	25.4741	25.4728	92.57	0.03	6.73466
97.155	98	7.8762	33.982098	32.6855	7.8668	25.4760	25.4746	92.57	0.03	6.70342
98.146	99	7.8722	33.979572	32.6861	7.8627	25.4771	25.4757	92.57	0.03	6.67151
99.137	100	7.8575	33.968269	32.6873	7.8479	25.4801	25.4787	92.59	0.03	6.67208
100.128	101	7.8195	33.940403	32.6926	7.8098	25.4897	25.4883	92.58	0.03	6.68445
101.120	102	7.7962	33.924946	32.6974	7.7865	25.4968	25.4954	92.60	0.03	6.68106
102.111	103	7.7866	33.919739	32.7004	7.7768	25.5005	25.4991	92.58	0.03	6.62794
103.102	104	7.7639	33.905125	32.7056	7.7540	25.5079	25.5065	92.57	0.03	6.60729
104.093	105	7.7533	33.899418	32.7089	7.7433	25.5120	25.5106	92.59	0.03	6.64373
105.084	106	7.7466	33.896301	32.7114	7.7365	25.5149	25.5135	92.61	0.03	6.61570
106.075	107	7.7348	33.889210	32.7144	7.7246	25.5190	25.5175	92.66	0.03	6.57961
107.066	108	7.7111	33.874458	32.7204	7.7009	25.5270	25.5256	92.64	0.03	6.59016
108.057	109	7.6913	33.862827	32.7261	7.6809	25.5343	25.5328	92.65	0.03	6.57556
109.048	110	7.6634	33.847260	32.7351	7.6530	25.5453	25.5439	92.66	0.03	6.51976
110.039	111	7.6389	33.834023	32.7434	7.6284	25.5554	25.5539	92.66	0.03	6.58730
111.031	112	7.6190	33.831520	32.7590	7.6084	25.5704	25.5689	92.69	0.03	6.54890
112.022	113	7.6164	33.845661	32.7761	7.6058	25.5842	25.5827	92.66	0.03	6.49493
113.013	114	7.6522	33.915211	32.8168	7.6414	25.6112	25.6096	92.69	0.04	6.42976
114.004	115	7.6831	33.969360	32.8453	7.6722	25.6292	25.6276	92.75	0.03	6.36013
114.995	116	7.6928	34.004543	32.8734	7.6818	25.6500	25.6484	92.79	0.03	6.24147
115.986	117	7.6669	34.004040	32.8968	7.6558	25.6720	25.6704	92.81	0.03	6.14945
116.977	118	7.6727	34.034435	32.9235	7.6615	25.6922	25.6906	92.79	0.03	6.10034
117.968	119	7.6527	34.046978	32.9555	7.6414	25.7201	25.7185	92.84	0.02	5.99049
118.959	120	7.5954	34.046917	33.0092	7.5841	25.7705	25.7689	92.85	0.02	5.93540
119.950	121	7.5645	34.025806	33.0153	7.5531	25.7797	25.7781	92.88	0.02	5.92693
120.941	122	7.5235	34.005455	33.0319	7.5120	25.7985	25.7968	92.86	0.03	5.88982
121.932	123	7.5106	34.003674	33.0418	7.4990	25.8080	25.8064	92.85	0.03	5.78202
122.923	124	7.4449	33.964180	33.0612	7.4333	25.8325	25.8309	92.87	0.03	5.73026
123.914	125	7.4630	33.998497	33.0805	7.4513	25.8452	25.8436	92.86	0.02	5.71731
124.905	126	7.4718	34.027676	33.1032	7.4600	25.8618	25.8601	92.86	0.02	5.72823
125.896	127	7.5006	34.100033	33.1533	7.4887	25.8972	25.8955	92.87	0.02	5.68766
126.887	128	7.5020	34.125847	33.1795	7.4899	25.9176	25.9159	92.85	0.03	5.62521
127.878	129	7.4730	34.119579	33.2000	7.4608	25.9378	25.9361	92.87	0.02	5.53470
128.869	130	7.5320	34.214790	33.2459	7.5197	25.9656	25.9639	92.88	0.03	5.37648
129.860	131	7.5275	34.247692	33.2852	7.5151	25.9971	25.9954	92.91	0.03	5.32611
130.851	132	7.5571	34.303951	33.3170	7.5446	26.0180	26.0162	92.90	0.03	5.31741
131.842	133	7.5644	34.326950	33.3344	7.5518	26.0307	26.0289	92.89	0.03	5.26496
132.833	134	7.5780	34.356407	33.3527	7.5652	26.0431	26.0413	92.91	0.02	5.16850
133.824	135	7.5800	34.394085	33.3909	7.5672	26.0729	26.0710	92.96	0.02	5.03781
134.815	136	7.6009	34.436424	33.4160	7.5879	26.0897	26.0878	92.92	0.03	4.90195
135.806	137	7.6381	34.497181	33.4452	7.6250	26.1074	26.1055	92.93	0.02	4.81305

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
136.797	138	7.6209	34.494892	33.4589	7.6077	26.1206	26.1187	92.95	0.02	4.75500
137.788	139	7.6106	34.494427	33.4678	7.5973	26.1291	26.1272	92.85	0.02	4.69723
138.779	140	7.5938	34.492847	33.4818	7.5804	26.1425	26.1406	92.93	0.02	4.64785
139.770	141	7.5599	34.479168	33.4991	7.5465	26.1609	26.1590	92.95	0.02	4.57416
140.761	142	7.5082	34.470234	33.5388	7.4948	26.1995	26.1976	92.90	0.02	4.53922
141.752	143	7.5166	34.508415	33.5715	7.5031	26.2240	26.2221	92.93	0.02	4.53398
142.742	144	7.5360	34.551708	33.5991	7.5223	26.2429	26.2410	92.94	0.02	4.51574
143.733	145	7.5483	34.584606	33.6223	7.5345	26.2595	26.2575	92.92	0.02	4.48449
144.724	146	7.5537	34.601490	33.6349	7.5397	26.2686	26.2666	92.89	0.02	4.46685
145.715	147	7.5620	34.622753	33.6493	7.5480	26.2788	26.2768	92.96	0.02	4.41839
146.706	148	7.5632	34.643993	33.6706	7.5490	26.2954	26.2934	92.93	0.03	4.30135
147.697	149	7.5590	34.655258	33.6864	7.5448	26.3084	26.3063	92.93	0.04	4.18286
148.688	150	7.5546	34.658363	33.6935	7.5403	26.3146	26.3125	92.94	0.03	4.08765
149.679	151	7.5547	34.667675	33.7030	7.5403	26.3221	26.3200	92.94	0.02	4.03129
150.670	152	7.5585	34.680141	33.7123	7.5440	26.3289	26.3268	92.93	0.02	4.01082
151.661	153	7.5612	34.687279	33.7169	7.5466	26.3321	26.3300	92.93	0.02	3.98098
152.651	154	7.5551	34.686943	33.7220	7.5404	26.3370	26.3349	92.91	0.02	3.98121
153.642	155	7.5513	34.693386	33.7322	7.5365	26.3456	26.3434	92.90	0.02	3.98319
154.633	156	7.5525	34.710621	33.7491	7.5376	26.3587	26.3566	92.91	0.02	3.95720
155.624	157	7.5495	34.717175	33.7587	7.5344	26.3667	26.3646	92.93	0.02	3.93572
156.615	158	7.5488	34.723743	33.7660	7.5336	26.3726	26.3704	92.93	0.02	3.91767
157.606	159	7.5490	34.729309	33.7713	7.5338	26.3767	26.3746	92.91	0.02	3.86629
158.597	160	7.5517	34.748703	33.7891	7.5364	26.3904	26.3882	92.92	0.03	3.82027
159.587	161	7.5519	34.759850	33.8005	7.5365	26.3993	26.3971	92.92	0.02	3.80527
160.578	162	7.5431	34.774273	33.8242	7.5276	26.4192	26.4170	92.93	0.02	3.78311
161.569	163	7.5285	34.771484	33.8349	7.5129	26.4297	26.4275	92.91	0.02	3.76764
162.560	164	7.5203	34.772682	33.8437	7.5047	26.4378	26.4355	92.87	0.02	3.73970
163.551	165	7.5138	34.769325	33.8459	7.4981	26.4405	26.4382	92.90	0.02	3.67564
164.542	166	7.4869	34.753983	33.8550	7.4711	26.4514	26.4492	92.90	0.02	3.58813
165.532	167	7.4753	34.753098	33.8649	7.4594	26.4609	26.4587	92.91	0.02	3.52585
166.523	168	7.4733	34.755890	33.8694	7.4573	26.4647	26.4624	92.93	0.02	3.47971
167.514	169	7.4731	34.757393	33.8707	7.4570	26.4658	26.4635	92.91	0.02	3.45686
168.505	170	7.4720	34.758568	33.8726	7.4558	26.4675	26.4652	92.91	0.03	3.43684
169.496	171	7.4714	34.759327	33.8736	7.4551	26.4683	26.4660	92.92	0.02	3.41625
170.486	172	7.4697	34.759880	33.8753	7.4533	26.4700	26.4676	92.89	0.02	3.40885
171.477	173	7.4686	34.760078	33.8762	7.4521	26.4708	26.4685	92.92	0.02	3.41073
172.468	174	7.4657	34.759506	33.8779	7.4491	26.4726	26.4702	92.92	0.02	3.40794
173.459	175	7.4617	34.761517	33.8835	7.4450	26.4775	26.4752	92.90	0.02	3.39527
174.450	176	7.4537	34.758675	33.8878	7.4369	26.4820	26.4797	92.90	0.02	3.38236
175.440	177	7.4466	34.755974	33.8913	7.4297	26.4858	26.4834	92.92	0.02	3.38274
176.431	178	7.4377	34.751575	33.8946	7.4208	26.4898	26.4874	92.92	0.02	3.39255
177.422	179	7.4315	34.748783	33.8972	7.4145	26.4926	26.4902	92.92	0.03	3.37073
178.413	180	7.4226	34.747505	33.9040	7.4055	26.4993	26.4969	92.91	0.02	3.33682
179.403	181	7.4100	34.740299	33.9080	7.3929	26.5042	26.5018	92.94	0.02	3.31740

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
180.394	182	7.3989	34.733490	33.9110	7.3816	26.5082	26.5057	92.92	0.02	3.30855
181.385	183	7.3953	34.731583	33.9120	7.3779	26.5095	26.5070	92.92	0.03	3.27799
182.376	184	7.3788	34.719135	33.9141	7.3614	26.5135	26.5110	92.90	0.03	3.25787
183.366	185	7.3532	34.702312	33.9205	7.3357	26.5220	26.5196	92.88	0.02	3.25365
184.357	186	7.3432	34.696106	33.9230	7.3256	26.5255	26.5230	92.90	0.02	3.24851
185.348	187	7.3376	34.692539	33.9241	7.3199	26.5272	26.5247	92.92	0.02	3.24748
186.338	188	7.3223	34.681782	33.9269	7.3046	26.5315	26.5290	92.94	0.02	3.21689
187.329	189	7.3081	34.671619	33.9293	7.2903	26.5354	26.5329	92.93	0.02	3.15248
188.320	190	7.3048	34.669376	33.9296	7.2868	26.5361	26.5336	92.94	0.02	3.11691
189.311	191	7.2990	34.665615	33.9307	7.2810	26.5378	26.5352	92.93	0.03	3.09942
190.301	192	7.2837	34.653046	33.9316	7.2656	26.5406	26.5381	92.94	0.02	3.07925
191.292	193	7.2548	34.628944	33.9331	7.2367	26.5459	26.5433	92.93	0.03	3.06501
192.283	194	7.2342	34.612316	33.9347	7.2160	26.5500	26.5475	92.93	0.02	3.07754
193.273	195	7.2169	34.597584	33.9351	7.1987	26.5527	26.5502	92.89	0.02	3.06342
194.264	196	7.2077	34.589565	33.9349	7.1894	26.5539	26.5513	92.93	0.02	3.06344
195.255	197	7.1959	34.580921	33.9366	7.1775	26.5568	26.5543	92.94	0.02	3.07561
196.245	198	7.1926	34.578701	33.9369	7.1741	26.5576	26.5550	92.92	0.02	3.06794
197.236	199	7.1868	34.573639	33.9366	7.1682	26.5581	26.5556	92.90	0.02	3.06026
198.227	200	7.1785	34.566643	33.9366	7.1599	26.5593	26.5567	92.94	0.02	3.07029
199.217	201	7.1700	34.558537	33.9356	7.1513	26.5597	26.5571	92.94	0.02	3.06963
200.208	202	7.1654	34.554993	33.9358	7.1466	26.5605	26.5579	92.92	0.02	3.07509
201.199	203	7.1627	34.553055	33.9359	7.1438	26.5610	26.5583	92.91	0.02	3.08042
202.189	204	7.1596	34.550896	33.9361	7.1406	26.5615	26.5589	92.93	0.02	3.08467
203.180	205	7.1538	34.546600	33.9366	7.1347	26.5628	26.5601	92.91	0.02	3.09893
204.170	206	7.1473	34.541885	33.9373	7.1281	26.5643	26.5616	92.93	0.02	3.11020
205.161	207	7.1308	34.527260	33.9371	7.1116	26.5663	26.5637	92.93	0.02	3.11428
206.152	208	7.1213	34.518002	33.9359	7.1019	26.5667	26.5641	92.89	0.02	3.12005
207.142	209	7.0954	34.493782	33.9343	7.0760	26.5691	26.5664	92.91	0.02	3.11282
208.133	210	7.0792	34.479752	33.9344	7.0597	26.5714	26.5687	92.91	0.02	3.11049
209.124	211	7.0724	34.474979	33.9354	7.0528	26.5731	26.5704	92.90	0.02	3.12595
210.114	212	7.0612	34.466145	33.9362	7.0416	26.5753	26.5726	92.90	0.02	3.16137
211.105	213	7.0477	34.456657	33.9387	7.0280	26.5791	26.5764	92.90	0.02	3.20091
212.095	214	7.0216	34.432816	33.9377	7.0018	26.5820	26.5793	92.89	0.02	3.21764
213.086	215	7.0115	34.424007	33.9375	6.9917	26.5832	26.5805	92.90	0.02	3.18170
214.076	216	7.0064	34.419880	33.9375	6.9865	26.5839	26.5812	92.90	0.02	3.15411
215.067	217	6.9988	34.413361	33.9374	6.9788	26.5848	26.5821	92.90	0.02	3.13389
216.058	218	6.9872	34.405006	33.9391	6.9672	26.5878	26.5851	92.90	0.02	3.12749
217.048	219	6.9864	34.405052	33.9395	6.9662	26.5882	26.5855	92.90	0.02	3.14310
218.039	220	6.9849	34.404652	33.9400	6.9647	26.5889	26.5861	92.89	0.02	3.16431
219.029	221	6.9808	34.401936	33.9407	6.9604	26.5899	26.5871	92.90	0.02	3.14571
220.020	222	6.9726	34.394962	33.9406	6.9522	26.5910	26.5882	92.91	0.02	3.13063
221.010	223	6.9655	34.389065	33.9407	6.9450	26.5920	26.5892	92.91	0.02	3.11590
222.001	224	6.9518	34.377625	33.9411	6.9312	26.5942	26.5914	92.89	0.02	3.11421
222.991	225	6.9367	34.367516	33.9444	6.9161	26.5989	26.5961	92.89	0.02	3.10729

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
223.982	226	6.9286	34.361671	33.9454	6.9079	26.6008	26.5980	92.88	0.02	3.10149
224.973	227	6.9267	34.360394	33.9454	6.9059	26.6011	26.5982	92.90	0.03	3.10682
225.963	228	6.9240	34.358349	33.9453	6.9031	26.6014	26.5986	92.90	0.02	3.10300
226.954	229	6.9195	34.354805	33.9454	6.8985	26.6021	26.5992	92.90	0.02	3.04185
227.944	230	6.9088	34.346241	33.9461	6.8878	26.6041	26.6012	92.92	0.02	2.99102
228.935	231	6.8952	34.334648	33.9462	6.8741	26.6060	26.6032	92.91	0.02	2.99173
229.925	232	6.8708	34.312878	33.9459	6.8496	26.6091	26.6063	92.92	0.02	2.98571
230.916	233	6.8431	34.290062	33.9477	6.8219	26.6142	26.6114	92.91	0.02	2.98654
231.906	234	6.8351	34.283371	33.9477	6.8138	26.6153	26.6125	92.92	0.02	2.97535
232.897	235	6.8202	34.270130	33.9474	6.7988	26.6171	26.6142	92.93	0.02	2.95957
233.887	236	6.7812	34.236240	33.9480	6.7599	26.6229	26.6200	92.92	0.02	2.94877
234.878	237	6.7622	34.219471	33.9479	6.7407	26.6253	26.6225	92.93	0.02	2.91668
235.868	238	6.7282	34.191036	33.9497	6.7067	26.6313	26.6284	92.92	0.02	2.88748
236.858	239	6.7177	34.181969	33.9495	6.6962	26.6325	26.6296	92.93	0.03	2.87849
237.849	240	6.7067	34.172810	33.9498	6.6851	26.6343	26.6314	92.93	0.02	2.87095
238.839	241	6.7053	34.171997	33.9498	6.6836	26.6345	26.6316	92.93	0.02	2.85786
239.830	242	6.7032	34.170708	33.9499	6.6814	26.6348	26.6319	92.93	0.02	2.83098
240.820	243	6.7021	34.169994	33.9498	6.6802	26.6349	26.6320	92.94	0.02	2.80237
241.811	244	6.6991	34.167702	33.9497	6.6771	26.6353	26.6323	92.94	0.02	2.78098
242.801	245	6.6958	34.165199	33.9497	6.6738	26.6357	26.6327	92.94	0.02	2.79207
243.792	246	6.6873	34.157547	33.9492	6.6651	26.6365	26.6335	92.94	0.02	2.78060
244.782	247	6.6732	34.145153	33.9489	6.6510	26.6381	26.6351	92.93	0.02	2.78798
245.772	248	6.6594	34.133080	33.9488	6.6371	26.6399	26.6369	92.89	0.02	2.79708
246.763	249	6.6401	34.116234	33.9488	6.6178	26.6424	26.6395	92.90	0.03	2.79132
247.753	250	6.6276	34.107128	33.9506	6.6052	26.6455	26.6425	92.92	0.02	2.79630
248.744	251	6.6136	34.095325	33.9510	6.5911	26.6476	26.6447	92.91	0.02	2.80928
249.734	252	6.6006	34.084080	33.9509	6.5781	26.6493	26.6463	92.94	0.02	2.79355
250.725	253	6.5764	34.062141	33.9500	6.5539	26.6518	26.6489	92.93	0.02	2.76292
251.715	254	6.5538	34.042286	33.9499	6.5312	26.6547	26.6518	92.93	0.02	2.72963
252.705	255	6.5385	34.029015	33.9500	6.5158	26.6568	26.6538	92.93	0.02	2.69676
253.696	256	6.5186	34.011524	33.9498	6.4959	26.6593	26.6563	92.93	0.02	2.69295
254.686	257	6.5005	33.996376	33.9504	6.4777	26.6622	26.6592	92.93	0.04	2.68931
255.676	258	6.4895	33.987007	33.9505	6.4667	26.6636	26.6606	92.94	0.02	2.68017
256.667	259	6.4792	33.978123	33.9503	6.4563	26.6649	26.6619	92.92	0.02	2.67254
257.657	260	6.4677	33.968124	33.9501	6.4447	26.6662	26.6632	92.93	0.02	2.66442
258.648	261	6.4553	33.957466	33.9501	6.4323	26.6679	26.6649	92.92	0.02	2.64505
259.638	262	6.4475	33.951271	33.9505	6.4244	26.6692	26.6662	92.95	0.02	2.63149
260.628	263	6.4450	33.949383	33.9504	6.4218	26.6695	26.6664	92.95	0.02	2.62464
261.619	264	6.4415	33.947136	33.9509	6.4182	26.6703	26.6672	92.95	0.02	2.62460
262.609	265	6.4396	33.946232	33.9513	6.4162	26.6709	26.6678	92.95	0.02	2.61030
263.599	266	6.4374	33.944675	33.9513	6.4139	26.6712	26.6681	92.94	0.02	2.60231
264.590	267	6.4312	33.939613	33.9513	6.4076	26.6720	26.6690	92.95	0.02	2.59490
265.580	268	6.4170	33.926727	33.9506	6.3934	26.6733	26.6702	92.95	0.02	2.58886
266.570	269	6.3983	33.910450	33.9506	6.3747	26.6757	26.6726	92.95	0.02	2.58857

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
267.561	270	6.3779	33.892952	33.9509	6.3542	26.6786	26.6756	92.94	0.02	2.59345
268.551	271	6.3706	33.887062	33.9511	6.3468	26.6797	26.6766	92.94	0.02	2.59099
269.541	272	6.3588	33.876625	33.9507	6.3349	26.6810	26.6779	92.95	0.02	2.59252
270.532	273	6.3403	33.860401	33.9505	6.3164	26.6832	26.6801	92.94	0.03	2.57940
271.522	274	6.3196	33.842430	33.9506	6.2957	26.6860	26.6829	92.96	0.02	2.55333
272.512	275	6.3066	33.831234	33.9506	6.2826	26.6876	26.6845	92.95	0.02	2.53608
273.503	276	6.2912	33.817768	33.9505	6.2671	26.6895	26.6864	92.95	0.02	2.53223
274.493	277	6.2841	33.812920	33.9516	6.2600	26.6913	26.6882	92.95	0.02	2.51966
275.483	278	6.2767	33.807289	33.9521	6.2525	26.6927	26.6896	92.95	0.02	2.50070
276.473	279	6.2463	33.777805	33.9491	6.2220	26.6942	26.6911	92.96	0.02	2.51194
277.464	280	6.2050	33.740932	33.9485	6.1808	26.6990	26.6959	92.96	0.02	2.50858
278.454	281	6.1658	33.705219	33.9472	6.1416	26.7030	26.6999	92.97	0.02	2.50094
279.444	282	6.1512	33.692894	33.9475	6.1269	26.7051	26.7020	92.96	0.02	2.48557
280.434	283	6.1447	33.687275	33.9471	6.1204	26.7056	26.7025	92.94	0.02	2.44852
281.425	284	6.1011	33.646812	33.9448	6.0768	26.7093	26.7063	92.95	0.02	2.45333
282.415	285	6.0779	33.625546	33.9436	6.0535	26.7114	26.7083	92.94	0.02	2.46831
283.405	286	6.0817	33.631126	33.9456	6.0572	26.7124	26.7094	92.95	0.02	2.47745
284.395	287	6.0832	33.633133	33.9459	6.0586	26.7125	26.7094	92.95	0.02	2.48015
285.386	288	6.0829	33.634048	33.9467	6.0582	26.7132	26.7101	92.95	0.02	2.47799
286.376	289	6.0762	33.628483	33.9467	6.0515	26.7140	26.7109	92.92	0.02	2.47401
287.366	290	6.0704	33.625355	33.9484	6.0456	26.7161	26.7130	92.92	0.02	2.46765
288.356	291	6.0702	33.628128	33.9513	6.0453	26.7185	26.7153	92.94	0.02	2.46817
289.347	292	6.0626	33.623016	33.9526	6.0377	26.7204	26.7173	92.96	0.02	2.45911
290.337	293	6.0592	33.620735	33.9529	6.0342	26.7211	26.7180	92.97	0.02	2.43159
291.327	294	6.0551	33.618279	33.9538	6.0300	26.7224	26.7192	92.97	0.02	2.36021
292.317	295	6.0554	33.619240	33.9541	6.0302	26.7226	26.7194	92.95	0.02	2.30134
293.307	296	6.0531	33.618340	33.9549	6.0278	26.7235	26.7203	92.96	0.02	2.29190
294.298	297	6.0438	33.610760	33.9552	6.0185	26.7249	26.7217	92.99	0.02	2.28392
295.288	298	6.0342	33.601246	33.9536	6.0088	26.7249	26.7217	93.00	0.02	2.27730
296.278	299	6.0127	33.582485	33.9536	5.9872	26.7275	26.7243	92.99	0.02	2.27711
297.268	300	5.9960	33.568668	33.9542	5.9705	26.7302	26.7270	92.98	0.02	2.27331
298.258	301	5.9826	33.557583	33.9546	5.9571	26.7322	26.7290	93.00	0.02	2.25834
299.248	302	5.9664	33.543690	33.9548	5.9408	26.7343	26.7311	93.01	0.02	2.24308
300.239	303	5.9511	33.530628	33.9549	5.9254	26.7363	26.7331	93.02	0.02	2.22783
301.229	304	5.9432	33.524021	33.9549	5.9175	26.7373	26.7341	93.02	0.02	2.21160
302.219	305	5.9347	33.516964	33.9549	5.9089	26.7384	26.7352	93.01	0.02	2.19576
303.209	306	5.9309	33.513927	33.9548	5.9050	26.7388	26.7356	93.02	0.02	2.17879
304.199	307	5.9220	33.506496	33.9548	5.8961	26.7399	26.7367	93.02	0.02	2.17690
305.189	308	5.9040	33.490448	33.9544	5.8780	26.7418	26.7386	93.03	0.02	2.17947
306.179	309	5.8626	33.453480	33.9537	5.8366	26.7464	26.7432	93.00	0.02	2.17705
307.170	310	5.8394	33.433163	33.9535	5.8134	26.7491	26.7459	93.02	0.02	2.17063
308.160	311	5.8264	33.421764	33.9532	5.8003	26.7505	26.7473	93.02	0.02	2.16368
309.150	312	5.8042	33.402031	33.9527	5.7781	26.7529	26.7496	93.03	0.02	2.14261
310.140	313	5.7900	33.390263	33.9532	5.7638	26.7550	26.7518	93.02	0.02	2.12891

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
311.130	314	5.7878	33.388805	33.9532	5.7616	26.7552	26.7520	93.03	0.02	2.12880
312.120	315	5.7809	33.382778	33.9529	5.7546	26.7559	26.7526	93.02	0.02	2.12039
313.110	316	5.7761	33.379387	33.9533	5.7498	26.7568	26.7535	93.03	0.02	2.11541
314.100	317	5.7624	33.366405	33.9519	5.7360	26.7574	26.7541	93.03	0.02	2.11248
315.090	318	5.7407	33.348076	33.9525	5.7142	26.7605	26.7573	93.01	0.02	2.10079
316.081	319	5.7256	33.336548	33.9541	5.6991	26.7636	26.7604	93.02	0.02	2.09622
317.071	320	5.7187	33.330566	33.9537	5.6921	26.7642	26.7609	92.97	0.02	2.10269
318.061	321	5.7026	33.314926	33.9517	5.6760	26.7646	26.7613	93.00	0.02	2.09811
319.051	322	5.6868	33.300297	33.9505	5.6602	26.7655	26.7623	92.97	0.02	2.08332
320.041	323	5.6748	33.289398	33.9497	5.6481	26.7664	26.7631	92.94	0.02	2.06556
321.031	324	5.6560	33.272301	33.9488	5.6293	26.7679	26.7647	93.01	0.02	2.05351
322.021	325	5.6503	33.269661	33.9510	5.6235	26.7704	26.7671	93.02	0.02	2.05732
323.011	326	5.6086	33.231400	33.9491	5.5818	26.7739	26.7707	93.02	0.02	2.08265
324.001	327	5.5822	33.209846	33.9507	5.5553	26.7784	26.7752	93.02	0.04	2.09768
324.991	328	5.5883	33.215393	33.9504	5.5614	26.7774	26.7741	93.01	0.02	2.09088
325.981	329	5.5692	33.198692	33.9500	5.5423	26.7794	26.7762	93.01	0.02	2.06477
326.971	330	5.5726	33.202579	33.9506	5.5456	26.7794	26.7762	93.03	0.02	2.04839
327.961	331	5.5745	33.205082	33.9510	5.5473	26.7796	26.7763	93.03	0.02	2.02962
328.951	332	5.5741	33.206009	33.9520	5.5469	26.7804	26.7771	93.03	0.02	2.02670
329.941	333	5.5650	33.198784	33.9524	5.5377	26.7818	26.7786	93.03	0.02	2.03364
330.931	334	5.5580	33.194450	33.9540	5.5307	26.7840	26.7807	93.03	0.02	2.02581
331.921	335	5.5528	33.189667	33.9534	5.5254	26.7841	26.7808	93.01	0.02	2.02005
332.911	336	5.5258	33.163769	33.9506	5.4984	26.7851	26.7818	92.98	0.02	2.01707
333.901	337	5.5096	33.150234	33.9510	5.4822	26.7874	26.7841	93.03	0.02	2.01111
334.891	338	5.5035	33.145554	33.9514	5.4759	26.7884	26.7851	93.03	0.02	1.97858
335.881	339	5.4923	33.135094	33.9502	5.4647	26.7889	26.7856	92.99	0.02	1.96889
336.871	340	5.4743	33.118317	33.9487	5.4467	26.7898	26.7866	93.02	0.02	1.98421
337.861	341	5.4604	33.105846	33.9481	5.4328	26.7910	26.7877	93.02	0.02	1.98575
338.851	342	5.4548	33.100681	33.9473	5.4271	26.7911	26.7878	93.00	0.02	1.99081
339.841	343	5.4395	33.087326	33.9471	5.4117	26.7927	26.7894	93.01	0.03	1.98640
340.831	344	5.4117	33.063477	33.9475	5.3839	26.7963	26.7930	93.00	0.02	1.99086
341.821	345	5.4058	33.058990	33.9478	5.3779	26.7972	26.7939	93.00	0.02	2.01473
342.811	346	5.3995	33.054180	33.9481	5.3716	26.7983	26.7950	93.00	0.02	2.01805
343.801	347	5.3800	33.036934	33.9477	5.3520	26.8002	26.7969	93.00	0.02	2.01613
344.791	348	5.3690	33.028130	33.9482	5.3410	26.8020	26.7987	92.99	0.02	2.00407
345.781	349	5.3660	33.025986	33.9483	5.3379	26.8024	26.7991	93.00	0.02	1.99961
346.771	350	5.3613	33.022366	33.9484	5.3332	26.8030	26.7997	93.00	0.02	1.99090
347.761	351	5.3471	33.011116	33.9494	5.3189	26.8055	26.8022	92.88	0.02	1.98318
348.751	352	5.3261	32.993824	33.9503	5.2979	26.8087	26.8054	92.98	0.02	1.97464
349.741	353	5.3227	32.991402	33.9505	5.2944	26.8093	26.8060	93.01	0.02	1.96460
350.731	354	5.3169	32.986416	33.9502	5.2885	26.8097	26.8064	93.01	0.02	1.94239
351.721	355	5.3002	32.972404	33.9505	5.2718	26.8119	26.8086	93.01	0.02	1.93200
352.710	356	5.2923	32.966022	33.9507	5.2638	26.8130	26.8097	92.99	0.02	1.91681
353.700	357	5.2879	32.963253	33.9515	5.2594	26.8142	26.8108	92.99	0.02	1.90795

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
354.690	358	5.2810	32.957489	33.9513	5.2524	26.8148	26.8115	93.00	0.02	1.90882
355.680	359	5.2699	32.948112	33.9514	5.2412	26.8162	26.8129	93.01	0.02	1.91180
356.670	360	5.2619	32.941456	33.9514	5.2331	26.8172	26.8138	93.00	0.02	1.91032
357.660	361	5.2525	32.933731	33.9516	5.2237	26.8184	26.8150	93.01	0.02	1.89873
358.650	362	5.2451	32.927956	33.9519	5.2163	26.8195	26.8161	93.01	0.02	1.88345
359.640	363	5.2426	32.926250	33.9519	5.2137	26.8198	26.8165	93.01	0.02	1.87437
360.630	364	5.2415	32.925804	33.9520	5.2125	26.8200	26.8167	92.99	0.02	1.87820
361.619	365	5.2412	32.926250	33.9523	5.2122	26.8203	26.8169	93.00	0.02	1.87264
362.609	366	5.2413	32.927044	33.9527	5.2121	26.8206	26.8172	93.00	0.02	1.86540
363.599	367	5.2405	32.926647	33.9526	5.2112	26.8206	26.8172	93.01	0.02	1.86425
364.589	368	5.2391	32.926498	33.9532	5.2098	26.8213	26.8179	93.01	0.02	1.87044
365.579	369	5.2370	32.925018	33.9532	5.2076	26.8215	26.8181	93.00	0.02	1.87507
366.569	370	5.2265	32.916199	33.9532	5.1971	26.8228	26.8194	93.00	0.02	1.86541
367.559	371	5.2201	32.911186	33.9534	5.1906	26.8237	26.8203	93.00	0.02	1.86610
368.548	372	5.2085	32.900570	33.9525	5.1790	26.8243	26.8209	93.01	0.02	1.85979
369.538	373	5.1817	32.876183	33.9512	5.1521	26.8264	26.8230	93.00	0.02	1.84899
370.528	374	5.1566	32.853504	33.9501	5.1270	26.8285	26.8250	92.99	0.02	1.84908
371.518	375	5.1437	32.842476	33.9500	5.1141	26.8298	26.8264	93.00	0.02	1.85147
372.508	376	5.1319	32.831169	33.9485	5.1022	26.8300	26.8266	92.98	0.02	1.85240
373.498	377	5.1107	32.812256	33.9478	5.0810	26.8319	26.8285	92.97	0.02	1.85798
374.487	378	5.0999	32.803337	33.9480	5.0701	26.8333	26.8299	92.98	0.02	1.86512
375.477	379	5.0964	32.800751	33.9480	5.0666	26.8337	26.8303	92.98	0.02	1.86523
376.467	380	5.0784	32.785210	33.9479	5.0486	26.8357	26.8323	92.99	0.02	1.86813
377.457	381	5.0578	32.767815	33.9483	5.0279	26.8384	26.8350	92.98	0.02	1.86869
378.447	382	5.0511	32.762501	33.9485	5.0212	26.8393	26.8359	92.97	0.02	1.86971
379.436	383	5.0460	32.758625	33.9487	5.0160	26.8401	26.8366	92.98	0.02	1.85943
380.426	384	5.0418	32.755779	33.9492	5.0117	26.8410	26.8375	92.98	0.02	1.84589
381.416	385	5.0379	32.752998	33.9494	5.0078	26.8416	26.8382	92.94	0.02	1.83727
382.406	386	5.0333	32.749798	33.9499	5.0031	26.8425	26.8390	92.98	0.02	1.83197
383.395	387	5.0286	32.746418	33.9503	4.9983	26.8434	26.8399	92.97	0.02	1.83300
384.385	388	5.0258	32.744808	33.9507	4.9955	26.8440	26.8405	92.97	0.02	1.83552
385.375	389	5.0224	32.742386	33.9509	4.9920	26.8446	26.8411	92.98	0.02	1.83453
386.365	390	5.0193	32.739998	33.9508	4.9888	26.8448	26.8414	92.88	0.02	1.82913
387.354	391	5.0130	32.735149	33.9511	4.9825	26.8458	26.8423	92.97	0.02	1.82116
388.344	392	5.0033	32.727814	33.9520	4.9728	26.8476	26.8441	92.98	0.02	1.81496
389.334	393	4.9867	32.713676	33.9521	4.9561	26.8496	26.8461	92.99	0.02	1.81017
390.324	394	4.9619	32.694073	33.9542	4.9313	26.8540	26.8506	92.99	0.02	1.80398
391.313	395	4.9494	32.684578	33.9554	4.9188	26.8564	26.8529	93.00	0.02	1.79382
392.303	396	4.9391	32.676277	33.9558	4.9084	26.8579	26.8545	92.98	0.02	1.78844
393.293	397	4.9312	32.669846	33.9559	4.9004	26.8589	26.8554	93.00	0.02	1.78721
394.283	398	4.9216	32.662678	33.9569	4.8908	26.8608	26.8573	93.00	0.02	1.78069
395.272	399	4.9199	32.661724	33.9570	4.8891	26.8610	26.8575	92.99	0.02	1.75534
396.262	400	4.9160	32.658878	33.9572	4.8850	26.8617	26.8582	93.00	0.02	1.73145
397.252	401	4.9044	32.650055	33.9583	4.8734	26.8638	26.8603	93.01	0.02	1.71565

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
398.241	402	4.8949	32.642731	33.9590	4.8638	26.8655	26.8620	93.03	0.03	1.71204
399.231	403	4.8909	32.639896	33.9592	4.8598	26.8661	26.8626	93.01	0.02	1.70367
400.221	404	4.8859	32.636314	33.9597	4.8547	26.8671	26.8636	93.00	0.02	1.69828
401.210	405	4.8809	32.632675	33.9601	4.8497	26.8679	26.8644	93.03	0.02	1.69498
402.200	406	4.8760	32.628925	33.9603	4.8446	26.8687	26.8651	93.03	0.02	1.69243
403.190	407	4.8645	32.620152	33.9613	4.8331	26.8708	26.8672	93.00	0.02	1.69057
404.179	408	4.8618	32.618462	33.9616	4.8304	26.8713	26.8677	93.01	0.02	1.67924
405.169	409	4.8589	32.616695	33.9620	4.8274	26.8719	26.8684	93.01	0.02	1.66995
406.159	410	4.8550	32.613987	33.9623	4.8235	26.8726	26.8691	93.03	0.02	1.66174
407.148	411	4.8523	32.612064	33.9623	4.8206	26.8730	26.8694	93.03	0.02	1.65677
408.138	412	4.8448	32.606140	33.9626	4.8131	26.8741	26.8705	93.03	0.02	1.64800
409.128	413	4.8331	32.596821	33.9632	4.8014	26.8758	26.8723	93.02	0.02	1.64511
410.117	414	4.8162	32.582977	33.9639	4.7844	26.8783	26.8747	93.03	0.02	1.64621
411.107	415	4.8023	32.572807	33.9658	4.7705	26.8814	26.8778	93.04	0.02	1.63850
412.096	416	4.8011	32.572308	33.9660	4.7692	26.8816	26.8781	93.03	0.02	1.63554
413.086	417	4.8002	32.572121	33.9661	4.7682	26.8818	26.8783	93.03	0.02	1.62620
414.076	418	4.7986	32.571308	33.9663	4.7666	26.8822	26.8786	93.02	0.02	1.59784
415.065	419	4.7935	32.567638	33.9668	4.7614	26.8831	26.8795	93.04	0.02	1.58448
416.055	420	4.7839	32.559776	33.9669	4.7518	26.8843	26.8807	92.94	0.02	1.58059
417.045	421	4.7743	32.553135	33.9685	4.7421	26.8866	26.8830	92.94	0.02	1.58120
418.034	422	4.7691	32.550201	33.9699	4.7369	26.8883	26.8847	93.04	0.02	1.57790
419.024	423	4.7665	32.548599	33.9702	4.7342	26.8888	26.8852	93.04	0.02	1.57641
420.013	424	4.7602	32.544273	33.9711	4.7278	26.8903	26.8867	92.96	0.02	1.56990
421.003	425	4.7549	32.540710	33.9718	4.7225	26.8914	26.8878	93.04	0.02	1.55929
421.992	426	4.7490	32.536125	33.9720	4.7165	26.8923	26.8887	93.04	0.02	1.53977
422.982	427	4.7398	32.528488	33.9721	4.7072	26.8933	26.8897	93.04	0.02	1.52445
423.972	428	4.7283	32.519054	33.9724	4.6957	26.8948	26.8912	93.03	0.02	1.51470
424.961	429	4.7260	32.518074	33.9730	4.6934	26.8956	26.8920	93.04	0.02	1.50657
425.951	430	4.7247	32.517776	33.9735	4.6920	26.8961	26.8925	93.04	0.02	1.49728
426.940	431	4.7218	32.515377	33.9732	4.6890	26.8962	26.8926	93.04	0.02	1.49250
427.930	432	4.7183	32.512882	33.9734	4.6854	26.8968	26.8932	93.01	0.02	1.49255
428.919	433	4.7162	32.511902	33.9738	4.6833	26.8973	26.8937	93.05	0.02	1.48945
429.909	434	4.7109	32.507896	33.9741	4.6779	26.8982	26.8945	93.04	0.02	1.48241
430.898	435	4.6986	32.498997	33.9758	4.6655	26.9009	26.8973	93.04	0.02	1.48151
431.888	436	4.6933	32.495445	33.9766	4.6602	26.9021	26.8985	93.05	0.02	1.47682
432.878	437	4.6895	32.493023	33.9772	4.6563	26.9030	26.8993	93.06	0.02	1.47346
433.867	438	4.6868	32.491505	33.9777	4.6535	26.9037	26.9000	93.08	0.02	1.46460
434.857	439	4.6854	32.490753	33.9777	4.6520	26.9039	26.9002	93.07	0.02	1.45548
435.846	440	4.6848	32.490620	33.9776	4.6514	26.9039	26.9002	93.05	0.02	1.44353
436.836	441	4.6796	32.487247	33.9785	4.6462	26.9051	26.9014	93.01	0.02	1.43327
437.825	442	4.6744	32.483459	33.9790	4.6408	26.9061	26.9024	93.06	0.02	1.43413
438.815	443	4.6654	32.476898	33.9800	4.6318	26.9079	26.9042	93.05	0.02	1.43527
439.804	444	4.6602	32.474030	33.9815	4.6265	26.9097	26.9060	93.08	0.02	1.43254
440.794	445	4.6608	32.475113	33.9816	4.6271	26.9097	26.9060	93.08	0.02	1.42686

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
441.783	446	4.6580	32.473473	33.9821	4.6242	26.9104	26.9067	93.08	0.02	1.42386
442.773	447	4.6472	32.465466	33.9832	4.6134	26.9125	26.9088	93.07	0.02	1.41651
443.762	448	4.6379	32.458683	33.9844	4.6040	26.9144	26.9107	93.08	0.02	1.40445
444.751	449	4.6354	32.457172	33.9846	4.6015	26.9149	26.9112	93.08	0.02	1.39376
445.741	450	4.6351	32.457378	33.9847	4.6011	26.9150	26.9112	93.08	0.02	1.38320
446.730	451	4.6322	32.455662	33.9852	4.5981	26.9157	26.9120	93.08	0.02	1.38088
447.720	452	4.6294	32.453869	33.9855	4.5952	26.9163	26.9125	93.08	0.02	1.37541
448.709	453	4.6239	32.450226	33.9863	4.5897	26.9175	26.9138	93.05	0.02	1.37390
449.699	454	4.6171	32.445343	33.9871	4.5828	26.9189	26.9152	93.08	0.02	1.37086
450.688	455	4.6109	32.441074	33.9879	4.5766	26.9203	26.9165	93.08	0.02	1.36716
451.678	456	4.6080	32.439522	33.9886	4.5736	26.9211	26.9173	93.08	0.02	1.36350
452.667	457	4.6058	32.438183	33.9887	4.5714	26.9214	26.9177	93.08	0.02	1.35899
453.656	458	4.6049	32.438030	33.9890	4.5704	26.9217	26.9180	93.08	0.02	1.35079
454.646	459	4.6044	32.438087	33.9891	4.5698	26.9219	26.9181	93.06	0.02	1.34644
455.635	460	4.6028	32.437325	33.9893	4.5681	26.9223	26.9185	93.07	0.02	1.33874
456.625	461	4.5989	32.434845	33.9899	4.5642	26.9231	26.9194	93.08	0.02	1.33206
457.614	462	4.5948	32.432236	33.9906	4.5599	26.9242	26.9204	93.08	0.02	1.33172
458.604	463	4.5933	32.431667	33.9909	4.5584	26.9246	26.9208	93.08	0.02	1.33483
459.593	464	4.5904	32.429966	33.9914	4.5554	26.9253	26.9215	93.07	0.02	1.33356
460.582	465	4.5886	32.429165	33.9917	4.5536	26.9258	26.9220	93.08	0.02	1.32988
461.572	466	4.5873	32.428772	33.9921	4.5522	26.9262	26.9224	93.08	0.02	1.32487
462.561	467	4.5869	32.428753	33.9920	4.5517	26.9262	26.9224	93.08	0.02	1.32023
463.551	468	4.5853	32.428200	33.9925	4.5500	26.9267	26.9229	93.08	0.02	1.31069
464.540	469	4.5834	32.427250	33.9928	4.5481	26.9272	26.9233	93.08	0.02	1.30584
465.529	470	4.5824	32.427181	33.9932	4.5470	26.9277	26.9238	93.08	0.02	1.30917
466.519	471	4.5812	32.426861	33.9936	4.5457	26.9282	26.9243	93.08	0.02	1.30603
467.508	472	4.5778	32.424965	33.9944	4.5422	26.9291	26.9252	93.08	0.02	1.29863
468.497	473	4.5729	32.421764	33.9952	4.5373	26.9303	26.9264	93.08	0.02	1.29545
469.487	474	4.5706	32.420940	33.9960	4.5349	26.9312	26.9273	93.09	0.02	1.29232
470.476	475	4.5710	32.422878	33.9973	4.5353	26.9322	26.9283	93.08	0.02	1.28870
471.465	476	4.5703	32.423573	33.9984	4.5344	26.9331	26.9292	93.04	0.02	1.27644
472.455	477	4.5689	32.423035	33.9987	4.5329	26.9336	26.9296	93.02	0.02	1.26851
473.444	478	4.5659	32.421230	33.9991	4.5299	26.9342	26.9303	93.08	0.02	1.25192
474.433	479	4.5642	32.421085	34.0001	4.5282	26.9352	26.9313	93.08	0.02	1.23506
475.423	480	4.5626	32.421829	34.0022	4.5264	26.9370	26.9331	93.09	0.02	1.22086
476.412	481	4.5618	32.422985	34.0038	4.5256	26.9384	26.9344	93.08	0.02	1.21608
477.401	482	4.5568	32.419498	34.0043	4.5206	26.9394	26.9354	93.07	0.02	1.21681
478.391	483	4.5464	32.410713	34.0042	4.5101	26.9404	26.9365	93.12	0.02	1.21491
479.380	484	4.5397	32.405403	34.0044	4.5033	26.9413	26.9374	93.11	0.02	1.19299
480.369	485	4.5376	32.404491	34.0051	4.5011	26.9421	26.9381	93.12	0.02	1.17037
481.359	486	4.5345	32.402725	34.0056	4.4980	26.9429	26.9389	93.11	0.02	1.16129
482.348	487	4.5303	32.400780	34.0071	4.4938	26.9445	26.9405	93.12	0.02	1.16419
483.337	488	4.5322	32.404552	34.0091	4.4955	26.9459	26.9419	93.12	0.02	1.16949
484.326	489	4.5259	32.399994	34.0098	4.4891	26.9471	26.9431	93.13	0.02	1.17197

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
485.316	490	4.5067	32.384579	34.0109	4.4699	26.9501	26.9461	93.12	0.02	1.16849
486.305	491	4.4998	32.379803	34.0119	4.4630	26.9516	26.9476	93.13	0.02	1.15954
487.294	492	4.4958	32.377697	34.0131	4.4589	26.9530	26.9490	93.13	0.02	1.14003
488.283	493	4.4936	32.376762	34.0137	4.4567	26.9537	26.9497	93.13	0.02	1.12191
489.273	494	4.4927	32.376797	34.0141	4.4558	26.9541	26.9501	93.13	0.02	1.11183
490.262	495	4.4882	32.373932	34.0148	4.4512	26.9552	26.9512	93.13	0.02	1.10901
491.251	496	4.4808	32.368984	34.0162	4.4437	26.9571	26.9531	93.13	0.02	1.10954
492.240	497	4.4769	32.366486	34.0167	4.4398	26.9579	26.9539	93.12	0.02	1.10471
493.230	498	4.4717	32.363541	34.0182	4.4344	26.9597	26.9557	93.13	0.02	1.10252
494.219	499	4.4683	32.363060	34.0205	4.4310	26.9619	26.9579	93.09	0.02	1.09684
495.208	500	4.4681	32.363770	34.0211	4.4308	26.9623	26.9583	93.12	0.02	1.08924
496.197	501	4.4651	32.362362	34.0221	4.4276	26.9635	26.9594	93.13	0.02	1.08161
497.187	502	4.4629	32.361759	34.0230	4.4254	26.9645	26.9604	93.13	0.02	1.06796
498.176	503	4.4601	32.360046	34.0234	4.4225	26.9651	26.9611	93.13	0.02	1.05202
499.165	504	4.4579	32.359249	34.0242	4.4203	26.9659	26.9619	93.13	0.02	1.03473
500.154	505	4.4562	32.359444	34.0257	4.4184	26.9674	26.9633	93.07	0.02	1.02602
501.143	506	4.4525	32.357887	34.0271	4.4148	26.9689	26.9648	93.13	0.02	1.02210
502.133	507	4.4498	32.356720	34.0281	4.4119	26.9699	26.9659	93.14	0.02	1.01377
503.122	508	4.4475	32.355770	34.0288	4.4095	26.9708	26.9667	93.13	0.02	0.99394
504.111	509	4.4435	32.353184	34.0293	4.4055	26.9716	26.9675	93.14	0.02	0.97217
505.100	510	4.4405	32.352119	34.0307	4.4024	26.9730	26.9690	93.18	0.02	0.96545
506.089	511	4.4374	32.350887	34.0319	4.3993	26.9743	26.9702	93.17	0.02	0.96387
507.079	512	4.4350	32.349876	34.0326	4.3968	26.9752	26.9711	93.17	0.02	0.96250
508.068	513	4.4327	32.349258	34.0338	4.3944	26.9764	26.9723	93.18	0.02	0.96035
509.057	514	4.4281	32.347515	34.0360	4.3897	26.9786	26.9745	93.17	0.02	0.94943
510.046	515	4.4262	32.347153	34.0370	4.3878	26.9796	26.9755	93.17	0.02	0.93729
511.035	516	4.4249	32.347050	34.0377	4.3864	26.9803	26.9762	93.18	0.02	0.92946
512.024	517	4.4245	32.347385	34.0380	4.3859	26.9806	26.9765	93.16	0.02	0.91772
513.013	518	4.4243	32.347664	34.0380	4.3856	26.9807	26.9765	93.18	0.02	0.90733
514.003	519	4.4227	32.347347	34.0388	4.3840	26.9815	26.9773	93.17	0.02	0.90461
514.992	520	4.4217	32.347183	34.0391	4.3829	26.9818	26.9777	93.18	0.02	0.90285
515.981	521	4.4207	32.346996	34.0394	4.3818	26.9822	26.9780	93.18	0.02	0.90031
516.970	522	4.4182	32.346088	34.0404	4.3793	26.9832	26.9791	93.18	0.02	0.89641
517.959	523	4.4127	32.343517	34.0425	4.3737	26.9855	26.9813	93.17	0.02	0.89052
518.948	524	4.4072	32.340454	34.0441	4.3681	26.9873	26.9832	93.18	0.02	0.88038
519.937	525	4.4064	32.340370	34.0442	4.3673	26.9875	26.9834	93.18	0.02	0.87556
520.926	526	4.4066	32.341015	34.0443	4.3674	26.9876	26.9834	93.18	0.02	0.86739
521.916	527	4.4067	32.341602	34.0444	4.3675	26.9876	26.9834	93.16	0.02	0.85899
522.905	528	4.4066	32.342003	34.0444	4.3673	26.9877	26.9835	93.15	0.02	0.85435
523.894	529	4.4031	32.339775	34.0449	4.3637	26.9885	26.9843	93.18	0.02	0.85052
524.883	530	4.3978	32.336922	34.0465	4.3584	26.9903	26.9861	93.18	0.02	0.84867
525.872	531	4.3959	32.336647	34.0477	4.3563	26.9915	26.9872	93.18	0.02	0.84874
526.861	532	4.3909	32.333721	34.0488	4.3513	26.9929	26.9887	93.18	0.01	0.84806
527.850	533	4.3866	32.331024	34.0496	4.3470	26.9940	26.9897	93.18	0.02	0.84017

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m ³]	[kg/m ³]			[ml/l]
528.839	534	4.3844	32.329987	34.0501	4.3447	26.9946	26.9904	93.18	0.01	0.82540
529.828	535	4.3821	32.328815	34.0506	4.3423	26.9953	26.9910	93.17	0.01	0.81545
530.817	536	4.3780	32.326088	34.0511	4.3382	26.9961	26.9918	93.14	0.02	0.81222
531.806	537	4.3725	32.323528	34.0533	4.3325	26.9985	26.9942	93.16	0.02	0.81031
532.795	538	4.3711	32.324478	34.0553	4.3311	27.0002	26.9960	93.16	0.02	0.80781
533.784	539	4.3784	32.333138	34.0574	4.3383	27.0011	26.9968	93.18	0.02	0.80639
534.773	540	4.3804	32.335735	34.0579	4.3402	27.0013	26.9970	93.14	0.01	0.80660
535.762	541	4.3811	32.337730	34.0590	4.3408	27.0021	26.9978	93.17	0.01	0.79326
536.751	542	4.3815	32.339176	34.0598	4.3411	27.0027	26.9984	93.18	0.01	0.77715
537.740	543	4.3792	32.337837	34.0600	4.3388	27.0031	26.9988	93.18	0.01	0.75314
538.729	544	4.3780	32.337654	34.0606	4.3375	27.0037	26.9994	93.18	0.01	0.74439
539.719	545	4.3752	32.336067	34.0610	4.3347	27.0044	27.0001	93.18	0.01	0.74121
540.708	546	4.3757	32.338093	34.0624	4.3351	27.0054	27.0010	93.18	0.01	0.74117
541.697	547	4.3722	32.335880	34.0629	4.3315	27.0062	27.0018	93.17	0.01	0.73924
542.685	548	4.3668	32.331993	34.0634	4.3260	27.0072	27.0028	93.18	0.01	0.74002
543.674	549	4.3650	32.331509	34.0642	4.3241	27.0080	27.0037	93.18	0.01	0.73881
544.664	550	4.3567	32.326389	34.0662	4.3158	27.0105	27.0062	93.18	0.01	0.73029
545.652	551	4.3513	32.323307	34.0676	4.3104	27.0122	27.0078	93.18	0.01	0.72409
546.641	552	4.3469	32.320827	34.0688	4.3059	27.0136	27.0092	93.18	0.01	0.71333
547.630	553	4.3450	32.321175	34.0706	4.3039	27.0153	27.0109	93.18	0.01	0.70386
548.619	554	4.3452	32.322948	34.0719	4.3041	27.0163	27.0119	93.18	0.02	0.69684
549.608	555	4.3430	32.323139	34.0740	4.3017	27.0181	27.0138	93.18	0.02	0.68762
550.597	556	4.3385	32.320778	34.0753	4.2972	27.0197	27.0153	93.18	0.02	0.67778
551.586	557	4.3355	32.319168	34.0759	4.2942	27.0205	27.0161	93.18	0.01	0.67426
552.575	558	4.3339	32.318356	34.0762	4.2925	27.0209	27.0165	93.18	0.01	0.66962
553.564	559	4.3330	32.317955	34.0761	4.2915	27.0209	27.0165	93.18	0.01	0.66430
554.553	560	4.3326	32.318184	34.0762	4.2911	27.0211	27.0167	93.18	0.01	0.65132
555.542	561	4.3321	32.318470	34.0766	4.2905	27.0214	27.0170	93.18	0.02	0.64604
556.531	562	4.3276	32.316071	34.0779	4.2859	27.0230	27.0186	93.18	0.02	0.64433
557.520	563	4.3203	32.310955	34.0789	4.2786	27.0245	27.0201	93.18	0.01	0.64300
558.509	564	4.3131	32.305351	34.0793	4.2713	27.0256	27.0212	93.18	0.01	0.64007
559.498	565	4.3080	32.301922	34.0800	4.2661	27.0267	27.0222	93.18	0.02	0.64265
560.487	566	4.3030	32.298523	34.0806	4.2611	27.0277	27.0233	93.18	0.01	0.64290
561.476	567	4.2983	32.295158	34.0810	4.2563	27.0286	27.0241	93.18	0.01	0.63068
562.465	568	4.2960	32.290089	34.0769	4.2540	27.0255	27.0211	93.17	0.02	0.62670
563.453	569	4.2906	32.290981	34.0830	4.2485	27.0309	27.0265	93.18	0.01	0.62203
564.442	570	4.2804	32.284706	34.0856	4.2383	27.0341	27.0297	93.18	0.01	0.61520
565.431	571	4.2709	32.277096	34.0860	4.2288	27.0354	27.0309	93.18	0.01	0.61623
566.420	572	4.2566	32.265560	34.0867	4.2144	27.0375	27.0330	93.18	0.01	0.61233
567.409	573	4.2508	32.261066	34.0868	4.2086	27.0382	27.0338	93.18	0.01	0.60656
568.398	574	4.2479	32.259731	34.0878	4.2056	27.0393	27.0348	93.18	0.01	0.59757
569.387	575	4.2487	32.261665	34.0887	4.2064	27.0399	27.0354	93.18	0.01	0.59280
570.376	576	4.2501	32.263599	34.0890	4.2076	27.0400	27.0356	93.18	0.01	0.59400
571.364	577	4.2494	32.263744	34.0894	4.2069	27.0404	27.0359	93.18	0.01	0.59845

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
572.353	578	4.2481	32.263485	34.0899	4.2055	27.0409	27.0365	93.18	0.01	0.60142
573.342	579	4.2428	32.259480	34.0902	4.2001	27.0417	27.0373	93.18	0.01	0.59643
574.331	580	4.2395	32.257481	34.0907	4.1968	27.0425	27.0380	93.18	0.01	0.58985
575.320	581	4.2361	32.255718	34.0917	4.1933	27.0436	27.0391	93.18	0.01	0.58422
576.309	582	4.2355	32.256420	34.0925	4.1926	27.0444	27.0399	93.18	0.01	0.57999
577.298	583	4.2332	32.255344	34.0931	4.1903	27.0451	27.0406	93.18	0.01	0.57888
578.286	584	4.2305	32.253838	34.0936	4.1875	27.0458	27.0413	93.18	0.02	0.57904
579.275	585	4.2267	32.251503	34.0943	4.1837	27.0467	27.0422	93.18	0.02	0.57504
580.264	586	4.2235	32.248901	34.0940	4.1804	27.0469	27.0424	93.18	0.01	0.56878
581.253	587	4.2145	32.241249	34.0938	4.1714	27.0476	27.0431	93.18	0.01	0.56700
582.242	588	4.2059	32.233749	34.0934	4.1627	27.0482	27.0437	93.18	0.01	0.56674
583.230	589	4.1964	32.226051	34.0936	4.1532	27.0494	27.0449	93.18	0.01	0.56282
584.219	590	4.1825	32.214828	34.0943	4.1392	27.0514	27.0469	93.16	0.01	0.56264
585.208	591	4.1718	32.205982	34.0944	4.1286	27.0525	27.0480	93.18	0.01	0.56936
586.197	592	4.1665	32.203201	34.0961	4.1231	27.0545	27.0500	93.18	0.01	0.57571
587.186	593	4.1617	32.200104	34.0969	4.1183	27.0556	27.0511	93.18	0.01	0.58636
588.174	594	4.1615	32.200550	34.0971	4.1180	27.0559	27.0513	93.18	0.01	0.59206
589.163	595	4.1585	32.198933	34.0977	4.1150	27.0566	27.0521	93.18	0.01	0.59572
590.152	596	4.1559	32.198116	34.0990	4.1123	27.0579	27.0534	93.18	0.01	0.59521
591.141	597	4.1555	32.198608	34.0994	4.1118	27.0583	27.0538	93.18	0.01	0.58862
592.129	598	4.1533	32.197300	34.0997	4.1096	27.0587	27.0542	93.18	0.02	0.58741
593.118	599	4.1527	32.197144	34.0996	4.1089	27.0588	27.0542	93.18	0.01	0.58478
594.107	600	4.1497	32.195198	34.0999	4.1058	27.0593	27.0547	93.18	0.01	0.57815
595.096	601	4.1454	32.192497	34.1006	4.1015	27.0603	27.0558	93.06	0.02	0.57612
596.084	602	4.1442	32.192337	34.1012	4.1002	27.0609	27.0564	93.17	0.01	0.57181
597.073	603	4.1410	32.190884	34.1022	4.0970	27.0621	27.0575	93.18	0.01	0.57601
598.062	604	4.1391	32.190250	34.1029	4.0950	27.0629	27.0583	93.18	0.01	0.57297
599.051	605	4.1364	32.189186	34.1040	4.0921	27.0640	27.0594	93.18	0.01	0.56806
600.039	606	4.1359	32.189362	34.1042	4.0916	27.0642	27.0596	93.18	0.01	0.56935
601.028	607	4.1351	32.189484	34.1047	4.0907	27.0647	27.0601	93.18	0.01	0.56537
602.017	608	4.1314	32.188015	34.1062	4.0870	27.0663	27.0617	93.18	0.01	0.55981
603.006	609	4.1304	32.189041	34.1079	4.0860	27.0677	27.0631	93.18	0.01	0.55765
603.994	610	4.1275	32.187466	34.1085	4.0830	27.0686	27.0639	93.18	0.01	0.55241
604.983	611	4.1272	32.188618	34.1097	4.0826	27.0695	27.0649	93.17	0.01	0.54550
605.972	612	4.1326	32.195370	34.1116	4.0878	27.0705	27.0659	93.18	0.01	0.53715
606.960	613	4.1352	32.199036	34.1127	4.0904	27.0711	27.0665	93.10	0.01	0.53337
607.949	614	4.1384	32.203182	34.1138	4.0934	27.0716	27.0670	93.17	0.01	0.53216
608.938	615	4.1398	32.205498	34.1145	4.0948	27.0721	27.0674	93.18	0.01	0.52963
609.926	616	4.1438	32.210957	34.1163	4.0987	27.0731	27.0684	93.17	0.02	0.52511
610.915	617	4.1473	32.216793	34.1190	4.1021	27.0749	27.0702	93.18	0.02	0.51101
611.904	618	4.1461	32.216526	34.1195	4.1008	27.0754	27.0707	93.18	0.02	0.50121
612.892	619	4.1458	32.216675	34.1194	4.1004	27.0754	27.0707	93.18	0.01	0.48915
613.881	620	4.1432	32.215225	34.1199	4.0978	27.0760	27.0713	93.18	0.01	0.47674
614.870	621	4.1382	32.211853	34.1205	4.0928	27.0771	27.0723	93.18	0.01	0.46929

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
615.858	622	4.1409	32.215862	34.1220	4.0953	27.0780	27.0732	93.18	0.01	0.46428
616.847	623	4.1544	32.230968	34.1253	4.1087	27.0792	27.0745	93.18	0.01	0.45979
617.836	624	4.1604	32.238083	34.1270	4.1146	27.0799	27.0752	93.18	0.01	0.45869
618.824	625	4.1602	32.239502	34.1283	4.1143	27.0810	27.0762	93.18	0.01	0.45632
619.813	626	4.1546	32.235596	34.1290	4.1086	27.0822	27.0774	93.18	0.01	0.44747
620.802	627	4.1569	32.240311	34.1317	4.1108	27.0841	27.0793	93.18	0.02	0.43180
621.790	628	4.1595	32.243774	34.1326	4.1133	27.0845	27.0797	93.18	0.02	0.42153
622.779	629	4.1599	32.244762	34.1327	4.1137	27.0846	27.0798	93.18	0.02	0.41637
623.767	630	4.1609	32.247330	34.1343	4.1145	27.0858	27.0809	93.18	0.01	0.41077
624.756	631	4.1485	32.237629	34.1351	4.1022	27.0877	27.0829	93.18	0.02	0.40265
625.745	632	4.1397	32.230324	34.1351	4.0933	27.0886	27.0838	92.98	0.01	0.40235
626.733	633	4.1535	32.247131	34.1401	4.1070	27.0912	27.0863	93.18	0.01	0.39770
627.722	634	4.1672	32.260788	34.1415	4.1205	27.0909	27.0860	93.18	0.02	0.39017
628.710	635	4.1306	32.226109	34.1380	4.0841	27.0918	27.0870	93.18	0.01	0.39103
629.699	636	4.1200	32.217880	34.1388	4.0734	27.0936	27.0888	93.18	0.01	0.38923
630.688	637	4.1151	32.214890	34.1398	4.0685	27.0949	27.0900	93.18	0.01	0.38987
631.676	638	4.1155	32.215961	34.1401	4.0688	27.0951	27.0903	93.16	0.01	0.38202
632.665	639	4.0890	32.191608	34.1383	4.0423	27.0965	27.0916	93.18	0.01	0.37576
633.653	640	4.0750	32.178875	34.1373	4.0284	27.0970	27.0922	93.17	0.01	0.37910
634.642	641	4.0733	32.178020	34.1376	4.0265	27.0975	27.0927	93.17	0.01	0.37594
635.630	642	4.0716	32.177204	34.1378	4.0248	27.0979	27.0930	93.17	0.01	0.37990
636.619	643	4.0632	32.171318	34.1391	4.0164	27.0997	27.0949	93.18	0.01	0.38839
637.607	644	4.0615	32.170639	34.1396	4.0146	27.1003	27.0954	93.17	0.01	0.39333
638.596	645	4.0592	32.169285	34.1397	4.0123	27.1007	27.0958	93.18	0.01	0.39692
639.585	646	4.0631	32.174435	34.1413	4.0160	27.1016	27.0967	93.17	0.01	0.39710
640.573	647	4.0682	32.181145	34.1434	4.0211	27.1027	27.0978	93.15	0.01	0.40072
641.562	648	4.0732	32.187565	34.1453	4.0259	27.1037	27.0988	93.16	0.01	0.39751
642.550	649	4.0806	32.196064	34.1471	4.0332	27.1044	27.0995	93.17	0.01	0.39480
643.539	650	4.0830	32.200474	34.1493	4.0355	27.1059	27.1010	93.18	0.01	0.39340
644.527	651	4.0772	32.196404	34.1500	4.0297	27.1071	27.1021	93.17	0.01	0.38002
645.516	652	4.0703	32.191120	34.1505	4.0227	27.1081	27.1032	93.18	0.01	0.36297
646.504	653	4.0683	32.190418	34.1512	4.0206	27.1089	27.1040	93.18	0.01	0.34991
647.493	654	4.0678	32.191383	34.1523	4.0201	27.1098	27.1049	93.18	0.01	0.34368
648.481	655	4.0692	32.194023	34.1534	4.0214	27.1106	27.1057	93.18	0.01	0.34130
649.470	656	4.0731	32.199238	34.1551	4.0252	27.1115	27.1066	93.18	0.01	0.33957
650.458	657	4.0691	32.196991	34.1561	4.0211	27.1128	27.1078	93.16	0.01	0.33972
651.447	658	4.0606	32.190674	34.1569	4.0126	27.1142	27.1093	93.16	0.01	0.33826
652.435	659	4.0585	32.190205	34.1579	4.0105	27.1153	27.1104	93.17	0.01	0.33732
653.424	660	4.0598	32.192463	34.1588	4.0116	27.1159	27.1109	93.17	0.01	0.33148
654.412	661	4.0608	32.193958	34.1590	4.0125	27.1160	27.1110	93.15	0.01	0.32386
655.401	662	4.0605	32.194164	34.1590	4.0122	27.1160	27.1110	93.18	0.02	0.32220
656.389	663	4.0537	32.190678	34.1614	4.0053	27.1186	27.1137	93.17	0.01	0.31831
657.377	664	4.0544	32.192421	34.1622	4.0060	27.1192	27.1142	93.17	0.01	0.31631
658.366	665	4.0512	32.190823	34.1632	4.0027	27.1203	27.1153	93.17	0.01	0.31846

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
659.354	666	4.0510	32.191620	34.1639	4.0024	27.1209	27.1159	93.14	0.01	0.31387
660.343	667	4.0448	32.185635	34.1627	3.9961	27.1206	27.1156	93.14	0.01	0.31264
661.331	668	4.0359	32.180317	34.1651	3.9872	27.1234	27.1184	93.14	0.01	0.31019
662.320	669	4.0362	32.181339	34.1655	3.9874	27.1237	27.1187	93.16	0.01	0.30757
663.308	670	4.0361	32.182476	34.1664	3.9873	27.1244	27.1194	93.15	0.01	0.30266
664.296	671	4.0422	32.190159	34.1687	3.9932	27.1256	27.1206	93.16	0.01	0.30185
665.285	672	4.0527	32.201996	34.1712	4.0036	27.1266	27.1215	93.15	0.01	0.29291
666.273	673	4.0565	32.206467	34.1720	4.0073	27.1268	27.1218	93.15	0.01	0.29509
667.262	674	4.0572	32.207916	34.1725	4.0079	27.1272	27.1221	93.15	0.01	0.29271
668.250	675	4.0684	32.220066	34.1747	4.0190	27.1278	27.1227	93.13	0.01	0.29023
669.238	676	4.0677	32.219872	34.1747	4.0182	27.1278	27.1227	93.13	0.01	0.28990
670.227	677	4.0693	32.222298	34.1754	4.0197	27.1283	27.1232	93.15	0.01	0.28237
671.215	678	4.0807	32.234867	34.1778	4.0310	27.1290	27.1239	93.16	0.02	0.27765
672.204	679	4.0884	32.245457	34.1818	4.0386	27.1314	27.1263	93.02	0.01	0.27442
673.192	680	4.0949	32.253941	34.1846	4.0450	27.1329	27.1278	93.14	0.01	0.27082
674.180	681	4.0969	32.256802	34.1854	4.0469	27.1334	27.1282	93.13	0.02	0.27075
675.169	682	4.0973	32.257813	34.1857	4.0472	27.1336	27.1284	93.13	0.01	0.26176
676.157	683	4.0979	32.258850	34.1858	4.0477	27.1336	27.1284	93.12	0.01	0.25270
677.146	684	4.0985	32.259899	34.1859	4.0482	27.1337	27.1285	93.11	0.01	0.24689
678.134	685	4.1002	32.262550	34.1867	4.0498	27.1342	27.1289	93.13	0.01	0.24667
679.122	686	4.1035	32.266586	34.1875	4.0530	27.1345	27.1292	93.13	0.02	0.24463
680.111	687	4.1048	32.268620	34.1880	4.0543	27.1347	27.1295	93.11	0.01	0.24402
681.099	688	4.1087	32.273354	34.1891	4.0580	27.1352	27.1299	93.05	0.01	0.24395
682.087	689	4.1316	32.298958	34.1950	4.0808	27.1375	27.1322	93.13	0.01	0.24126
683.076	690	4.1550	32.325447	34.2014	4.1039	27.1403	27.1349	93.13	0.01	0.24145
684.064	691	4.1751	32.348194	34.2069	4.1238	27.1425	27.1372	93.13	0.02	0.23562
685.052	692	4.1766	32.350918	34.2080	4.1252	27.1433	27.1379	93.13	0.05	0.23646
686.040	693	4.1797	32.355347	34.2095	4.1283	27.1441	27.1387	93.13	0.02	0.23671
687.029	694	4.1809	32.357521	34.2103	4.1293	27.1447	27.1393	93.13	0.02	0.22495
688.017	695	4.1763	32.354084	34.2105	4.1247	27.1453	27.1399	93.11	0.02	0.20754
689.005	696	4.1741	32.352303	34.2101	4.1225	27.1453	27.1398	93.12	0.02	0.19532
689.994	697	4.1713	32.349968	34.2098	4.1195	27.1453	27.1399	93.13	0.02	0.18999
690.982	698	4.1561	32.334167	34.2065	4.1044	27.1442	27.1388	93.12	0.02	0.19134
691.970	699	4.0875	32.267109	34.1980	4.0361	27.1446	27.1392	93.13	0.02	0.19119
692.959	700	4.0568	32.238342	34.1954	4.0055	27.1457	27.1404	93.12	0.02	0.19257
693.947	701	4.0485	32.232262	34.1964	3.9971	27.1473	27.1420	93.13	0.01	0.18905
694.935	702	4.0343	32.219982	34.1961	3.9829	27.1485	27.1432	93.13	0.02	0.19544
695.923	703	4.0370	32.223751	34.1972	3.9855	27.1491	27.1439	93.13	0.02	0.20960
696.912	704	4.0515	32.240513	34.2015	3.9998	27.1511	27.1457	93.13	0.01	0.21654
697.900	705	4.0775	32.266533	34.2047	4.0256	27.1509	27.1456	93.13	0.01	0.22214
698.888	706	4.0505	32.240906	34.2019	3.9987	27.1515	27.1462	93.13	0.01	0.22232
699.876	707	4.0798	32.275169	34.2114	4.0278	27.1561	27.1507	93.13	0.02	0.22280
700.865	708	4.1237	32.321182	34.2196	4.0714	27.1581	27.1526	93.13	0.02	0.21767
701.853	709	4.1347	32.333927	34.2227	4.0822	27.1595	27.1540	93.12	0.02	0.20936

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
702.841	710	4.1307	32.331814	34.2238	4.0782	27.1607	27.1553	93.12	0.02	0.19933
703.829	711	4.1273	32.329369	34.2240	4.0747	27.1612	27.1557	93.09	0.02	0.18963
704.818	712	4.1218	32.324902	34.2239	4.0692	27.1617	27.1562	93.12	0.02	0.17724
705.806	713	4.1183	32.323132	34.2249	4.0656	27.1629	27.1574	93.11	0.02	0.16874
706.794	714	4.1163	32.322327	34.2255	4.0635	27.1636	27.1581	93.12	0.02	0.16667
707.782	715	4.1109	32.318104	34.2256	4.0581	27.1642	27.1587	93.12	0.02	0.16259
708.770	716	4.1029	32.311256	34.2254	4.0500	27.1649	27.1594	93.12	0.02	0.16185
709.759	717	4.1003	32.309826	34.2259	4.0473	27.1656	27.1601	93.11	0.02	0.16222
710.747	718	4.1089	32.319393	34.2277	4.0559	27.1661	27.1606	93.10	0.02	0.16000
711.735	719	4.1064	32.317726	34.2279	4.0532	27.1665	27.1610	93.11	0.02	0.15928
712.723	720	4.1020	32.313889	34.2274	4.0488	27.1666	27.1611	93.11	0.02	0.15812
713.711	721	4.0891	32.301601	34.2257	4.0359	27.1666	27.1611	93.12	0.02	0.16054
714.700	722	4.0741	32.287857	34.2246	4.0209	27.1673	27.1618	93.12	0.02	0.16269
715.688	723	4.0793	32.295971	34.2282	4.0260	27.1696	27.1641	93.13	0.02	0.15783
716.676	724	4.0857	32.303455	34.2299	4.0323	27.1703	27.1648	93.13	0.02	0.15396
717.664	725	4.0762	32.295044	34.2294	4.0227	27.1709	27.1653	93.12	0.02	0.15291
718.652	726	4.0663	32.286366	34.2289	4.0128	27.1715	27.1660	93.12	0.02	0.15659
719.640	727	4.0470	32.268883	34.2278	3.9935	27.1726	27.1671	93.12	0.02	0.15345
720.629	728	4.0366	32.259579	34.2270	3.9832	27.1731	27.1676	93.12	0.02	0.15504
721.617	729	4.0382	32.262211	34.2280	3.9846	27.1737	27.1682	93.13	0.02	0.15477
722.605	730	4.0789	32.307068	34.2381	4.0250	27.1776	27.1720	93.12	0.02	0.15324
723.593	731	4.0932	32.323078	34.2416	4.0392	27.1789	27.1733	93.11	0.02	0.15687
724.581	732	4.0801	32.311768	34.2414	4.0260	27.1801	27.1745	93.11	0.02	0.15670
725.569	733	4.0835	32.317036	34.2436	4.0293	27.1815	27.1759	93.11	0.02	0.15601
726.557	734	4.0850	32.318695	34.2434	4.0308	27.1812	27.1756	93.11	0.02	0.15453
727.545	735	4.0833	32.317474	34.2433	4.0290	27.1813	27.1757	93.10	0.02	0.14563
728.534	736	4.0791	32.314274	34.2434	4.0247	27.1818	27.1762	93.11	0.02	0.13371
729.522	737	4.0809	32.317966	34.2453	4.0265	27.1832	27.1775	93.11	0.02	0.13022
730.510	738	4.0742	32.314190	34.2473	4.0197	27.1854	27.1798	93.12	0.02	0.13112
731.498	739	4.0657	32.307350	34.2476	4.0112	27.1865	27.1809	93.11	0.02	0.13110
732.486	740	4.0646	32.307373	34.2482	4.0100	27.1871	27.1815	93.09	0.02	0.12638
733.474	741	4.0637	32.306850	34.2480	4.0090	27.1871	27.1815	93.09	0.02	0.12895
734.462	742	4.0569	32.300636	34.2472	4.0022	27.1872	27.1816	93.07	0.02	0.12737
735.450	743	4.0535	32.298241	34.2474	3.9987	27.1877	27.1821	93.10	0.02	0.12232
736.438	744	4.0568	32.303017	34.2491	4.0020	27.1887	27.1830	93.10	0.02	0.12360
737.426	745	4.0667	32.314259	34.2516	4.0116	27.1897	27.1840	93.11	0.02	0.12301
738.414	746	4.0693	32.317692	34.2524	4.0142	27.1901	27.1844	93.11	0.02	0.12607
739.403	747	4.0691	32.318752	34.2534	4.0139	27.1909	27.1852	93.11	0.02	0.12311
740.391	748	4.0698	32.320366	34.2541	4.0145	27.1914	27.1857	93.11	0.02	0.12280
741.379	749	4.0673	32.319138	34.2547	4.0119	27.1921	27.1864	93.09	0.02	0.12065
742.367	750	4.0608	32.313744	34.2545	4.0055	27.1927	27.1869	93.10	0.02	0.11434
743.355	751	4.0553	32.310207	34.2555	3.9999	27.1940	27.1883	93.08	0.02	0.11311
744.343	752	4.0554	32.310833	34.2557	3.9999	27.1941	27.1884	93.03	0.02	0.11690
745.331	753	4.0560	32.312180	34.2561	4.0004	27.1945	27.1887	93.08	0.02	0.11854

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
746.319	754	4.0583	32.315273	34.2569	4.0026	27.1949	27.1891	93.08	0.02	0.11659
747.307	755	4.0587	32.316200	34.2570	4.0030	27.1949	27.1892	93.08	0.02	0.11078
748.295	756	4.0577	32.315971	34.2573	4.0018	27.1953	27.1895	93.10	0.02	0.11057
749.283	757	4.0543	32.313957	34.2579	3.9984	27.1961	27.1903	93.09	0.02	0.11375
750.271	758	4.0465	32.308117	34.2586	3.9906	27.1975	27.1917	93.09	0.02	0.11450
751.259	759	4.0443	32.306450	34.2585	3.9883	27.1976	27.1918	93.09	0.02	0.11336
752.247	760	4.0357	32.298630	34.2577	3.9796	27.1978	27.1921	93.09	0.02	0.10880
753.235	761	4.0292	32.293270	34.2576	3.9731	27.1984	27.1927	93.10	0.02	0.10821
754.223	762	4.0290	32.293468	34.2575	3.9728	27.1984	27.1926	93.09	0.02	0.10717
755.211	763	4.0229	32.287701	34.2566	3.9667	27.1983	27.1925	93.08	0.02	0.10723
756.199	764	4.0100	32.276295	34.2559	3.9538	27.1991	27.1933	93.10	0.02	0.10978
757.187	765	3.9906	32.257763	34.2537	3.9344	27.1993	27.1935	93.10	0.02	0.11022
758.175	766	3.9685	32.237282	34.2519	3.9124	27.2001	27.1944	93.10	0.02	0.11057
759.163	767	4.0028	32.274605	34.2598	3.9465	27.2029	27.1972	93.10	0.02	0.11011
760.151	768	4.0113	32.284286	34.2619	3.9548	27.2037	27.1979	93.08	0.02	0.11311
761.139	769	4.0339	32.307503	34.2654	3.9771	27.2042	27.1984	93.09	0.02	0.11894
762.127	770	4.0348	32.308640	34.2653	3.9779	27.2041	27.1982	93.08	0.02	0.12004
763.115	771	4.0329	32.307842	34.2658	3.9760	27.2047	27.1988	93.08	0.02	0.11743
764.102	772	4.0326	32.308102	34.2659	3.9756	27.2048	27.1989	92.95	0.02	0.11501
765.090	773	4.0249	32.303009	34.2673	3.9679	27.2067	27.2009	93.04	0.02	0.11452
766.078	774	4.0247	32.303787	34.2680	3.9676	27.2073	27.2014	93.04	0.02	0.10121
767.066	775	4.0196	32.300362	34.2687	3.9625	27.2084	27.2025	93.07	0.02	0.10189
768.054	776	4.0101	32.292000	34.2682	3.9529	27.2090	27.2031	93.08	0.02	0.10160
769.042	777	4.0038	32.287384	34.2688	3.9466	27.2101	27.2042	93.08	0.02	0.09940
770.030	778	4.0009	32.287098	34.2709	3.9437	27.2121	27.2062	93.08	0.02	0.09820
771.018	779	3.9991	32.286217	34.2713	3.9418	27.2125	27.2067	93.08	0.02	0.09782
772.006	780	3.9953	32.283352	34.2713	3.9379	27.2130	27.2071	93.08	0.02	0.09877
772.994	781	3.9933	32.282715	34.2721	3.9359	27.2138	27.2079	93.08	0.02	0.10067
773.982	782	3.9927	32.283478	34.2731	3.9352	27.2147	27.2088	93.09	0.02	0.10113
774.970	783	3.9904	32.281765	34.2730	3.9328	27.2148	27.2089	93.08	0.02	0.09771
775.957	784	3.9890	32.281303	34.2734	3.9313	27.2153	27.2094	93.08	0.02	0.09450
776.945	785	3.9930	32.287079	34.2756	3.9352	27.2166	27.2107	93.08	0.02	0.09227
777.933	786	3.9924	32.287758	34.2765	3.9346	27.2174	27.2115	93.08	0.02	0.09328
778.921	787	3.9854	32.283379	34.2781	3.9275	27.2194	27.2135	93.08	0.02	0.09619
779.909	788	3.9832	32.282093	34.2783	3.9252	27.2198	27.2139	93.08	0.02	0.09651
780.897	789	3.9828	32.282211	34.2784	3.9248	27.2199	27.2140	93.08	0.02	0.09653
781.885	790	3.9814	32.281422	34.2784	3.9232	27.2201	27.2142	93.08	0.02	0.09535
782.873	791	3.9780	32.278927	34.2785	3.9198	27.2205	27.2146	93.08	0.02	0.09029
783.860	792	3.9733	32.275757	34.2791	3.9150	27.2215	27.2155	93.08	0.02	0.08966
784.848	793	3.9680	32.272198	34.2799	3.9098	27.2226	27.2167	93.08	0.02	0.09051
785.836	794	3.9631	32.269310	34.2811	3.9048	27.2241	27.2181	93.08	0.02	0.09196
786.824	795	3.9631	32.270172	34.2816	3.9046	27.2245	27.2186	93.08	0.02	0.09198
787.812	796	3.9637	32.272305	34.2830	3.9052	27.2256	27.2196	93.08	0.02	0.09199
788.800	797	3.9643	32.274567	34.2845	3.9057	27.2268	27.2208	93.08	0.02	0.09201

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
789.787	798	3.9631	32.276073	34.2869	3.9045	27.2288	27.2228	93.08	0.02	0.09204
790.775	799	3.9577	32.272484	34.2878	3.8990	27.2300	27.2241	93.08	0.02	0.09207
791.763	800	3.9508	32.266773	34.2878	3.8920	27.2307	27.2248	93.08	0.02	0.08908
792.751	801	3.9458	32.263241	34.2883	3.8870	27.2317	27.2257	93.08	0.02	0.08609
793.739	802	3.9432	32.261806	34.2888	3.8844	27.2323	27.2263	93.08	0.02	0.08623
794.726	803	3.9347	32.255035	34.2891	3.8759	27.2334	27.2274	93.08	0.02	0.08617
795.714	804	3.9274	32.249477	34.2896	3.8685	27.2346	27.2286	93.08	0.02	0.08550
796.702	805	3.9238	32.246777	34.2896	3.8649	27.2350	27.2290	93.08	0.02	0.08444
797.690	806	3.9236	32.247101	34.2897	3.8646	27.2351	27.2291	93.08	0.02	0.08143
798.678	807	3.9238	32.247768	34.2898	3.8647	27.2351	27.2291	93.08	0.02	0.08163
799.665	808	3.9212	32.245724	34.2896	3.8620	27.2352	27.2292	93.08	0.02	0.08078
800.653	809	3.9153	32.241005	34.2896	3.8561	27.2359	27.2298	93.08	0.02	0.08245
801.641	810	3.9111	32.237392	34.2892	3.8519	27.2359	27.2299	93.08	0.02	0.08286
802.629	811	3.9039	32.231136	34.2888	3.8446	27.2364	27.2303	93.08	0.02	0.08290
803.616	812	3.8962	32.224487	34.2885	3.8368	27.2369	27.2309	93.08	0.02	0.08294
804.604	813	3.8883	32.217827	34.2883	3.8289	27.2375	27.2315	93.08	0.02	0.08299
805.592	814	3.8792	32.209900	34.2879	3.8198	27.2381	27.2321	93.08	0.02	0.08303
806.580	815	3.8770	32.208858	34.2883	3.8176	27.2387	27.2327	93.08	0.02	0.08306
807.567	816	3.8746	32.207928	34.2893	3.8150	27.2397	27.2337	93.08	0.02	0.08308
808.555	817	3.8652	32.201130	34.2905	3.8056	27.2417	27.2356	93.09	0.02	0.08313
809.543	818	3.8612	32.198971	34.2915	3.8016	27.2429	27.2369	93.09	0.02	0.08315
810.531	819	3.8580	32.196785	34.2918	3.7983	27.2434	27.2374	93.08	0.02	0.08337
811.518	820	3.8554	32.195068	34.2920	3.7957	27.2438	27.2378	93.09	0.02	0.08392
812.506	821	3.8515	32.192177	34.2921	3.7917	27.2443	27.2383	93.09	0.02	0.08507
813.494	822	3.8504	32.191853	34.2924	3.7905	27.2447	27.2386	93.08	0.02	0.08353
814.481	823	3.8528	32.195667	34.2939	3.7928	27.2456	27.2396	93.09	0.02	0.08143
815.469	824	3.8579	32.202160	34.2957	3.7979	27.2466	27.2405	93.08	0.02	0.08327
816.457	825	3.8586	32.204582	34.2973	3.7985	27.2478	27.2417	93.08	0.02	0.08330
817.444	826	3.8572	32.203968	34.2975	3.7970	27.2481	27.2420	93.08	0.02	0.08332
818.432	827	3.8568	32.204945	34.2986	3.7965	27.2490	27.2430	93.08	0.02	0.08334
819.420	828	3.8546	32.204014	34.2993	3.7942	27.2498	27.2437	93.08	0.02	0.08337
820.407	829	3.8441	32.194389	34.2983	3.7838	27.2500	27.2440	93.08	0.02	0.08342
821.395	830	3.8371	32.188839	34.2985	3.7767	27.2509	27.2448	93.09	0.02	0.08346
822.383	831	3.8358	32.188580	34.2991	3.7753	27.2515	27.2454	93.08	0.02	0.08349
823.370	832	3.8346	32.188385	34.2995	3.7741	27.2520	27.2459	93.09	0.02	0.07915
824.358	833	3.8318	32.186520	34.2998	3.7711	27.2525	27.2464	93.08	0.02	0.07826
825.346	834	3.8334	32.189884	34.3016	3.7727	27.2538	27.2477	93.09	0.02	0.07777
826.333	835	3.8435	32.201679	34.3046	3.7826	27.2551	27.2490	93.08	0.02	0.07620
827.321	836	3.8536	32.213749	34.3078	3.7926	27.2567	27.2506	93.08	0.02	0.07846
828.309	837	3.8595	32.220818	34.3095	3.7983	27.2575	27.2514	93.08	0.02	0.07868
829.296	838	3.8545	32.216961	34.3096	3.7933	27.2581	27.2519	93.08	0.02	0.07872
830.284	839	3.8605	32.224079	34.3113	3.7992	27.2588	27.2527	93.08	0.02	0.07872
831.272	840	3.8627	32.227749	34.3128	3.8013	27.2599	27.2537	93.08	0.02	0.07840
832.259	841	3.8482	32.214230	34.3114	3.7868	27.2602	27.2540	93.08	0.02	0.07581

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
833.247	842	3.8438	32.212093	34.3129	3.7824	27.2618	27.2556	93.08	0.02	0.07263
834.234	843	3.8391	32.208042	34.3125	3.7776	27.2620	27.2558	93.08	0.02	0.07183
835.222	844	3.8435	32.213478	34.3139	3.7819	27.2626	27.2564	93.08	0.02	0.07090
836.210	845	3.8387	32.209629	34.3139	3.7770	27.2631	27.2569	93.08	0.02	0.07330
837.197	846	3.8457	32.217552	34.3154	3.7839	27.2637	27.2574	93.08	0.02	0.07405
838.185	847	3.8534	32.225826	34.3167	3.7915	27.2639	27.2576	93.08	0.02	0.07403
839.172	848	3.8581	32.231422	34.3179	3.7961	27.2644	27.2581	93.08	0.02	0.07211
840.160	849	3.8565	32.230911	34.3184	3.7944	27.2650	27.2587	93.08	0.02	0.06887
841.148	850	3.8504	32.227020	34.3196	3.7883	27.2666	27.2603	93.08	0.02	0.07026
842.135	851	3.8417	32.219982	34.3199	3.7795	27.2677	27.2614	93.08	0.02	0.06909
843.123	852	3.8360	32.215343	34.3198	3.7738	27.2682	27.2619	93.08	0.02	0.06665
844.110	853	3.8343	32.214054	34.3196	3.7720	27.2682	27.2619	93.08	0.02	0.06916
845.098	854	3.8350	32.215801	34.3204	3.7727	27.2687	27.2625	93.08	0.02	0.06934
846.085	855	3.8359	32.217327	34.3207	3.7735	27.2689	27.2626	93.08	0.02	0.06935
847.073	856	3.8368	32.218716	34.3209	3.7743	27.2690	27.2627	93.08	0.02	0.06936
848.060	857	3.8389	32.221802	34.3218	3.7763	27.2695	27.2632	93.08	0.02	0.06938
849.048	858	3.8351	32.219147	34.3222	3.7725	27.2702	27.2639	93.08	0.02	0.06940
850.036	859	3.8263	32.212894	34.3235	3.7636	27.2721	27.2658	93.08	0.02	0.06524
851.023	860	3.8258	32.213837	34.3246	3.7630	27.2731	27.2667	93.08	0.02	0.06700
852.011	861	3.8190	32.209122	34.3255	3.7563	27.2745	27.2682	93.08	0.02	0.07019
852.998	862	3.8132	32.206341	34.3278	3.7504	27.2769	27.2706	93.08	0.02	0.06831
853.986	863	3.8061	32.202229	34.3298	3.7432	27.2792	27.2729	93.08	0.02	0.06505
854.973	864	3.8024	32.199688	34.3301	3.7395	27.2798	27.2735	93.08	0.02	0.06785
855.961	865	3.8004	32.199085	34.3310	3.7374	27.2807	27.2744	93.08	0.02	0.06589
856.948	866	3.7980	32.197971	34.3316	3.7350	27.2815	27.2752	93.08	0.02	0.06190
857.936	867	3.7934	32.195187	34.3326	3.7303	27.2827	27.2764	93.08	0.02	0.06275
858.923	868	3.7905	32.193584	34.3333	3.7273	27.2836	27.2772	93.08	0.02	0.06427
859.911	869	3.7873	32.191673	34.3338	3.7241	27.2843	27.2780	93.08	0.02	0.06457
860.898	870	3.7843	32.189777	34.3342	3.7210	27.2849	27.2786	93.08	0.02	0.06498
861.886	871	3.7783	32.184883	34.3341	3.7150	27.2854	27.2791	93.06	0.02	0.06489
862.873	872	3.7755	32.183372	34.3348	3.7121	27.2863	27.2799	93.08	0.02	0.06467
863.861	873	3.7738	32.183453	34.3361	3.7103	27.2875	27.2812	93.08	0.02	0.06489
864.848	874	3.7760	32.186882	34.3374	3.7124	27.2883	27.2820	93.08	0.02	0.06493
865.836	875	3.7784	32.190029	34.3381	3.7148	27.2886	27.2822	93.08	0.02	0.06591
866.823	876	3.7798	32.192047	34.3385	3.7161	27.2888	27.2825	93.08	0.02	0.06899
867.810	877	3.7811	32.194180	34.3392	3.7172	27.2893	27.2829	93.08	0.02	0.06628
868.798	878	3.7833	32.197559	34.3404	3.7194	27.2900	27.2836	93.08	0.02	0.06543
869.785	879	3.7835	32.198452	34.3407	3.7195	27.2903	27.2839	93.08	0.02	0.06689
870.773	880	3.7821	32.198185	34.3414	3.7180	27.2909	27.2845	93.08	0.02	0.06827
871.760	881	3.7807	32.197845	34.3419	3.7166	27.2915	27.2850	93.08	0.02	0.06670
872.748	882	3.7798	32.197693	34.3421	3.7156	27.2918	27.2853	93.08	0.02	0.06236
873.735	883	3.7790	32.197407	34.3422	3.7147	27.2919	27.2854	93.08	0.02	0.06467
874.722	884	3.7772	32.196293	34.3422	3.7129	27.2921	27.2856	93.08	0.02	0.06499
875.710	885	3.7749	32.195232	34.3428	3.7105	27.2928	27.2864	93.08	0.02	0.06507

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
876.697	886	3.7729	32.194271	34.3433	3.7084	27.2934	27.2870	93.08	0.02	0.06508
877.685	887	3.7711	32.193611	34.3438	3.7065	27.2940	27.2876	93.08	0.02	0.06510
878.672	888	3.7693	32.193272	34.3448	3.7046	27.2950	27.2885	93.08	0.02	0.06512
879.659	889	3.7667	32.191948	34.3455	3.7020	27.2958	27.2893	93.08	0.02	0.06514
880.647	890	3.7647	32.190792	34.3456	3.7000	27.2961	27.2896	93.08	0.02	0.06516
881.634	891	3.7636	32.190338	34.3457	3.6988	27.2963	27.2898	93.08	0.02	0.06517
882.622	892	3.7612	32.189018	34.3462	3.6963	27.2969	27.2904	93.08	0.02	0.06520
883.609	893	3.7562	32.186291	34.3476	3.6913	27.2985	27.2920	93.08	0.02	0.06561
884.596	894	3.7547	32.185642	34.3479	3.6897	27.2990	27.2925	93.08	0.02	0.06670
885.584	895	3.7542	32.185818	34.3481	3.6891	27.2992	27.2927	93.08	0.02	0.06670
886.571	896	3.7539	32.186039	34.3482	3.6887	27.2993	27.2928	93.08	0.02	0.06469
887.558	897	3.7535	32.186306	34.3485	3.6882	27.2995	27.2930	93.08	0.02	0.06548
888.546	898	3.7527	32.186317	34.3487	3.6874	27.2998	27.2933	93.08	0.02	0.06914
889.533	899	3.7515	32.186050	34.3491	3.6862	27.3003	27.2937	93.08	0.02	0.06728
890.520	900	3.7459	32.182056	34.3498	3.6804	27.3014	27.2949	93.07	0.02	0.06722
891.508	901	3.7382	32.176643	34.3508	3.6728	27.3030	27.2964	93.08	0.02	0.06859
892.495	902	3.7279	32.168507	34.3514	3.6625	27.3044	27.2979	93.08	0.02	0.06786
893.482	903	3.7207	32.163109	34.3520	3.6552	27.3057	27.2991	93.06	0.02	0.06576
894.470	904	3.7176	32.161060	34.3524	3.6520	27.3062	27.2997	93.06	0.02	0.06761
895.457	905	3.7122	32.156696	34.3523	3.6466	27.3067	27.3002	93.07	0.02	0.06667
896.444	906	3.7100	32.155495	34.3526	3.6444	27.3072	27.3007	93.08	0.02	0.07021
897.432	907	3.7057	32.152901	34.3535	3.6400	27.3084	27.3018	93.07	0.02	0.06712
898.419	908	3.7010	32.149597	34.3540	3.6353	27.3092	27.3027	93.07	0.02	0.06825
899.406	909	3.7005	32.149601	34.3540	3.6347	27.3093	27.3027	93.08	0.02	0.06902
900.394	910	3.7000	32.149548	34.3540	3.6341	27.3093	27.3028	93.08	0.02	0.07031
901.381	911	3.6983	32.148846	34.3545	3.6323	27.3098	27.3033	93.08	0.02	0.06726
902.368	912	3.6903	32.142277	34.3545	3.6243	27.3106	27.3041	93.08	0.02	0.06810
903.355	913	3.6856	32.139709	34.3558	3.6195	27.3122	27.3057	93.08	0.02	0.07162
904.343	914	3.6839	32.138702	34.3559	3.6178	27.3124	27.3059	93.08	0.02	0.06927
905.330	915	3.6825	32.138206	34.3562	3.6164	27.3128	27.3063	93.08	0.02	0.06983
906.317	916	3.6797	32.136402	34.3565	3.6135	27.3133	27.3067	93.08	0.02	0.07194
907.305	917	3.6763	32.134232	34.3569	3.6100	27.3140	27.3075	93.08	0.02	0.07170
908.292	918	3.6746	32.133587	34.3575	3.6082	27.3147	27.3081	93.08	0.02	0.07100
909.279	919	3.6723	32.132015	34.3575	3.6058	27.3149	27.3083	93.08	0.02	0.07023
910.266	920	3.6691	32.130337	34.3583	3.6026	27.3158	27.3093	93.08	0.02	0.07049
911.254	921	3.6637	32.126236	34.3586	3.5971	27.3166	27.3101	93.08	0.02	0.07103
912.241	922	3.6591	32.122898	34.3589	3.5926	27.3173	27.3107	93.08	0.02	0.07103
913.228	923	3.6582	32.122570	34.3590	3.5915	27.3175	27.3109	93.07	0.02	0.07049
914.215	924	3.6582	32.123112	34.3590	3.5915	27.3175	27.3109	93.08	0.02	0.07080
915.202	925	3.6550	32.121025	34.3594	3.5883	27.3181	27.3115	93.08	0.02	0.07117
916.190	926	3.6525	32.120270	34.3606	3.5857	27.3193	27.3127	93.08	0.02	0.07091
917.177	927	3.6478	32.117371	34.3615	3.5810	27.3205	27.3140	93.08	0.02	0.07093
918.164	928	3.6452	32.115673	34.3618	3.5782	27.3210	27.3144	93.08	0.02	0.07095
919.151	929	3.6302	32.101795	34.3604	3.5633	27.3214	27.3148	93.08	0.02	0.07100

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
920.139	930	3.6177	32.091530	34.3608	3.5508	27.3229	27.3163	93.08	0.02	0.07105
921.126	931	3.6155	32.089966	34.3607	3.5485	27.3231	27.3165	93.08	0.02	0.07107
922.113	932	3.6130	32.088310	34.3608	3.5460	27.3234	27.3168	93.07	0.02	0.07109
923.100	933	3.6087	32.085751	34.3617	3.5417	27.3245	27.3180	93.08	0.02	0.07112
924.087	934	3.6027	32.081257	34.3622	3.5355	27.3255	27.3190	93.08	0.02	0.07116
925.074	935	3.5999	32.079704	34.3628	3.5327	27.3263	27.3197	93.08	0.02	0.07117
926.062	936	3.6036	32.084797	34.3645	3.5363	27.3273	27.3207	93.08	0.02	0.07341
927.049	937	3.6124	32.095291	34.3672	3.5450	27.3286	27.3220	93.08	0.02	0.07589
928.036	938	3.6076	32.091927	34.3677	3.5402	27.3294	27.3228	93.08	0.02	0.07449
929.023	939	3.6041	32.089653	34.3682	3.5365	27.3302	27.3236	93.08	0.02	0.07304
930.010	940	3.6007	32.087585	34.3688	3.5331	27.3310	27.3244	93.08	0.02	0.07316
930.997	941	3.5962	32.084446	34.3692	3.5286	27.3317	27.3251	93.08	0.02	0.07765
931.985	942	3.5911	32.080864	34.3698	3.5234	27.3327	27.3261	93.07	0.02	0.07913
932.972	943	3.5871	32.078320	34.3704	3.5194	27.3336	27.3270	93.08	0.02	0.07622
933.959	944	3.5834	32.076191	34.3712	3.5156	27.3347	27.3280	93.08	0.02	0.07645
934.946	945	3.5823	32.075756	34.3713	3.5145	27.3348	27.3282	93.08	0.02	0.07668
935.933	946	3.5793	32.073715	34.3715	3.5114	27.3353	27.3287	93.07	0.02	0.07640
936.920	947	3.5765	32.072052	34.3720	3.5086	27.3359	27.3293	93.08	0.02	0.07642
937.907	948	3.5755	32.071579	34.3720	3.5074	27.3360	27.3294	93.08	0.02	0.07645
938.894	949	3.5742	32.071053	34.3721	3.5061	27.3363	27.3296	93.07	0.02	0.07660
939.882	950	3.5727	32.069939	34.3719	3.5045	27.3363	27.3296	93.07	0.02	0.07729
940.869	951	3.5670	32.065823	34.3725	3.4988	27.3373	27.3306	93.08	0.02	0.07931
941.856	952	3.5670	32.066334	34.3725	3.4987	27.3373	27.3307	93.08	0.02	0.08104
942.843	953	3.5663	32.066227	34.3727	3.4979	27.3375	27.3309	93.08	0.02	0.08208
943.830	954	3.5596	32.061275	34.3733	3.4912	27.3386	27.3320	93.08	0.02	0.07924
944.817	955	3.5543	32.057800	34.3741	3.4859	27.3398	27.3332	93.08	0.02	0.07595
945.804	956	3.5512	32.055836	34.3746	3.4827	27.3405	27.3338	93.08	0.02	0.08000
946.791	957	3.5476	32.053925	34.3755	3.4791	27.3416	27.3349	93.08	0.02	0.08052
947.778	958	3.5459	32.054081	34.3770	3.4772	27.3430	27.3363	93.08	0.02	0.08397
948.765	959	3.5466	32.055759	34.3777	3.4779	27.3435	27.3368	93.08	0.02	0.08417
949.752	960	3.5450	32.055046	34.3780	3.4763	27.3439	27.3372	93.08	0.02	0.08239
950.739	961	3.5415	32.052921	34.3786	3.4727	27.3447	27.3380	93.08	0.02	0.08178
951.727	962	3.5391	32.051529	34.3790	3.4702	27.3452	27.3385	93.08	0.02	0.08181
952.714	963	3.5385	32.051876	34.3795	3.4696	27.3457	27.3390	93.08	0.02	0.08182
953.701	964	3.5380	32.052109	34.3798	3.4689	27.3461	27.3393	93.08	0.02	0.08183
954.688	965	3.5364	32.051483	34.3802	3.4673	27.3465	27.3398	93.08	0.02	0.08187
955.675	966	3.5353	32.051018	34.3803	3.4662	27.3467	27.3400	93.08	0.02	0.08189
956.662	967	3.5327	32.049160	34.3803	3.4635	27.3470	27.3402	93.08	0.02	0.08191
957.649	968	3.5295	32.046963	34.3805	3.4602	27.3474	27.3407	93.08	0.02	0.08193
958.636	969	3.5253	32.043945	34.3808	3.4560	27.3481	27.3413	93.08	0.02	0.08197
959.623	970	3.5235	32.043003	34.3811	3.4541	27.3485	27.3418	93.08	0.02	0.08385
960.610	971	3.5207	32.041367	34.3816	3.4512	27.3491	27.3424	93.08	0.02	0.08614
961.597	972	3.5180	32.039783	34.3820	3.4484	27.3498	27.3430	93.08	0.02	0.08284
962.584	973	3.5167	32.039188	34.3821	3.4472	27.3499	27.3432	93.08	0.02	0.08305

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
963.571	974	3.5160	32.039204	34.3823	3.4464	27.3502	27.3435	93.08	0.02	0.08754
964.558	975	3.5155	32.039371	34.3826	3.4458	27.3505	27.3437	93.08	0.02	0.08582
965.545	976	3.5154	32.039909	34.3829	3.4455	27.3507	27.3439	93.08	0.02	0.08334
966.532	977	3.5145	32.040524	34.3839	3.4446	27.3517	27.3449	93.08	0.02	0.08443
967.519	978	3.5138	32.041069	34.3849	3.4438	27.3525	27.3457	93.08	0.02	0.08783
968.506	979	3.5121	32.040554	34.3855	3.4421	27.3531	27.3463	93.08	0.02	0.08846
969.493	980	3.5091	32.038773	34.3860	3.4390	27.3538	27.3471	93.08	0.02	0.08798
970.480	981	3.4995	32.030708	34.3859	3.4294	27.3547	27.3479	93.08	0.02	0.08751
971.467	982	3.4955	32.028164	34.3866	3.4253	27.3557	27.3489	93.08	0.02	0.08766
972.454	983	3.4882	32.022160	34.3866	3.4180	27.3563	27.3496	93.08	0.02	0.08739
973.440	984	3.4837	32.019135	34.3872	3.4134	27.3573	27.3505	93.07	0.02	0.08742
974.427	985	3.4860	32.022007	34.3877	3.4156	27.3574	27.3507	93.08	0.02	0.08744
975.414	986	3.4826	32.019569	34.3878	3.4122	27.3578	27.3510	93.08	0.02	0.08746
976.401	987	3.4748	32.012859	34.3875	3.4044	27.3584	27.3516	93.08	0.02	0.08750
977.388	988	3.4660	32.005745	34.3876	3.3956	27.3593	27.3525	93.08	0.02	0.08755
978.375	989	3.4642	32.004539	34.3876	3.3938	27.3594	27.3527	93.08	0.02	0.08758
979.362	990	3.4633	32.004192	34.3876	3.3928	27.3596	27.3528	93.08	0.02	0.08760
980.349	991	3.4636	32.005630	34.3885	3.3930	27.3602	27.3534	93.08	0.02	0.09180
981.336	992	3.4669	32.010029	34.3898	3.3962	27.3610	27.3542	93.08	0.02	0.09317
982.323	993	3.4637	32.007668	34.3898	3.3929	27.3613	27.3545	92.93	0.02	0.08989
983.310	994	3.4603	32.004940	34.3896	3.3895	27.3615	27.3547	93.07	0.02	0.09187
984.297	995	3.4589	32.004101	34.3896	3.3880	27.3616	27.3548	93.05	0.02	0.08819
985.284	996	3.4582	32.003796	34.3894	3.3872	27.3616	27.3547	93.08	0.02	0.09292
986.270	997	3.4559	32.002197	34.3894	3.3849	27.3617	27.3549	93.08	0.02	0.09622
987.257	998	3.4536	32.000500	34.3893	3.3825	27.3619	27.3550	93.08	0.02	0.09341
988.244	999	3.4533	32.000565	34.3891	3.3822	27.3618	27.3550	93.08	0.02	0.09320
989.231	1000	3.4525	32.000351	34.3892	3.3813	27.3619	27.3551	93.08	0.02	0.09292
990.218	1001	3.4515	31.999989	34.3893	3.3802	27.3622	27.3553	93.08	0.02	0.09293
991.205	1002	3.4514	32.000477	34.3895	3.3800	27.3623	27.3554	93.08	0.02	0.09295
992.192	1003	3.4503	32.000763	34.3905	3.3788	27.3632	27.3564	93.08	0.02	0.09299
993.178	1004	3.4484	32.000114	34.3912	3.3769	27.3640	27.3571	93.08	0.03	0.09301
994.165	1005	3.4487	32.000969	34.3914	3.3771	27.3641	27.3572	93.08	0.02	0.09302
995.152	1006	3.4504	32.003929	34.3927	3.3787	27.3649	27.3580	93.08	0.02	0.09305
996.139	1007	3.4467	32.001179	34.3927	3.3749	27.3654	27.3585	93.07	0.02	0.09308
997.126	1008	3.4458	32.000965	34.3929	3.3740	27.3656	27.3587	93.07	0.02	0.09335
998.113	1009	3.4452	32.001209	34.3933	3.3733	27.3660	27.3590	93.08	0.02	0.09325
999.099	1010	3.4456	32.002323	34.3938	3.3736	27.3663	27.3594	93.08	0.02	0.09285
1000.086	1011	3.4435	32.001179	34.3940	3.3715	27.3667	27.3598	93.08	0.02	0.09304
1001.073	1012	3.4409	31.999414	34.3941	3.3688	27.3670	27.3601	93.08	0.02	0.09475
1002.060	1013	3.4377	31.997568	34.3948	3.3655	27.3679	27.3610	93.08	0.02	0.09561
1003.047	1014	3.4372	31.997820	34.3951	3.3650	27.3682	27.3612	93.08	0.02	0.09687
1004.034	1015	3.4374	31.998484	34.3952	3.3650	27.3683	27.3614	93.08	0.02	0.09482
1005.020	1016	3.4348	31.996811	34.3954	3.3624	27.3687	27.3618	93.08	0.02	0.09663
1006.007	1017	3.4312	31.994654	34.3960	3.3588	27.3696	27.3626	93.08	0.02	0.09820

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1006.994	1018	3.4323	31.996929	34.3971	3.3598	27.3703	27.3633	93.08	0.02	0.09666
1007.981	1019	3.4313	31.996269	34.3969	3.3587	27.3702	27.3633	93.08	0.02	0.09560
1008.968	1020	3.4301	31.996031	34.3973	3.3575	27.3707	27.3637	93.08	0.02	0.09584
1009.954	1021	3.4300	31.996960	34.3980	3.3573	27.3713	27.3643	93.08	0.02	0.09730
1010.941	1022	3.4306	31.998356	34.3985	3.3578	27.3716	27.3647	93.08	0.02	0.09695
1011.928	1023	3.4309	31.999435	34.3990	3.3580	27.3720	27.3650	93.08	0.02	0.10064
1012.915	1024	3.4296	31.998968	34.3993	3.3566	27.3724	27.3654	93.08	0.02	0.09968
1013.901	1025	3.4272	31.997366	34.3995	3.3541	27.3727	27.3657	93.08	0.02	0.09860
1014.888	1026	3.4252	31.996155	34.3996	3.3521	27.3730	27.3660	93.08	0.02	0.09864
1015.875	1027	3.4231	31.994816	34.3997	3.3499	27.3733	27.3663	93.08	0.02	0.09867
1016.862	1028	3.4224	31.994591	34.3997	3.3491	27.3734	27.3663	93.08	0.02	0.10226
1017.848	1029	3.4174	31.990749	34.3997	3.3441	27.3739	27.3669	93.08	0.02	0.10248
1018.835	1030	3.4126	31.987690	34.4006	3.3393	27.3750	27.3680	93.08	0.02	0.10153
1019.822	1031	3.4099	31.986006	34.4009	3.3365	27.3756	27.3685	93.09	0.02	0.10208
1020.809	1032	3.4066	31.983536	34.4010	3.3332	27.3759	27.3689	93.08	0.02	0.10312
1021.795	1033	3.4036	31.981541	34.4012	3.3301	27.3764	27.3694	93.08	0.02	0.10253
1022.782	1034	3.3994	31.978632	34.4016	3.3258	27.3772	27.3701	93.08	0.02	0.10581
1023.769	1035	3.3965	31.976658	34.4018	3.3229	27.3776	27.3705	93.08	0.02	0.10365
1024.755	1036	3.3934	31.974674	34.4022	3.3197	27.3782	27.3711	93.08	0.02	0.10377
1025.742	1037	3.3909	31.973337	34.4027	3.3172	27.3788	27.3718	93.09	0.02	0.10506
1026.729	1038	3.3907	31.973648	34.4027	3.3169	27.3789	27.3718	93.09	0.02	0.10461
1027.715	1039	3.3877	31.971292	34.4026	3.3138	27.3791	27.3720	93.08	0.02	0.10420
1028.702	1040	3.3850	31.969591	34.4028	3.3111	27.3795	27.3724	93.08	0.02	0.10423
1029.689	1041	3.3830	31.968327	34.4029	3.3091	27.3797	27.3727	93.08	0.02	0.10425
1030.676	1042	3.3772	31.963911	34.4032	3.3032	27.3806	27.3735	93.08	0.02	0.10429
1031.662	1043	3.3704	31.959017	34.4040	3.2964	27.3818	27.3748	93.09	0.02	0.10435
1032.649	1044	3.3692	31.958508	34.4041	3.2952	27.3820	27.3750	93.09	0.02	0.10438
1033.635	1045	3.3689	31.958843	34.4043	3.2948	27.3822	27.3752	93.09	0.02	0.10442
1034.622	1046	3.3689	31.959629	34.4047	3.2947	27.3826	27.3755	93.08	0.02	0.10443
1035.609	1047	3.3694	31.960695	34.4050	3.2951	27.3827	27.3757	93.08	0.02	0.10444
1036.595	1048	3.3698	31.961611	34.4052	3.2954	27.3829	27.3758	93.09	0.02	0.10500
1037.582	1049	3.3709	31.963320	34.4056	3.2964	27.3831	27.3760	93.08	0.02	0.10513
1038.569	1050	3.3714	31.964352	34.4057	3.2968	27.3832	27.3761	93.09	0.02	0.10831
1039.555	1051	3.3635	31.958458	34.4065	3.2889	27.3845	27.3774	92.99	0.02	0.11087
1040.542	1052	3.3588	31.955360	34.4072	3.2842	27.3855	27.3784	93.07	0.02	0.11189
1041.529	1053	3.3566	31.953772	34.4071	3.2819	27.3857	27.3786	93.08	0.02	0.11063
1042.515	1054	3.3514	31.949602	34.4070	3.2767	27.3861	27.3790	93.09	0.02	0.10980
1043.502	1055	3.3497	31.948587	34.4071	3.2749	27.3863	27.3792	93.08	0.02	0.10986
1044.489	1056	3.3477	31.947695	34.4076	3.2729	27.3869	27.3798	93.08	0.02	0.10990
1045.475	1057	3.3457	31.947201	34.4086	3.2708	27.3879	27.3808	93.09	0.02	0.10993
1046.462	1058	3.3452	31.947424	34.4089	3.2702	27.3882	27.3811	93.09	0.02	0.10995
1047.448	1059	3.3449	31.947618	34.4090	3.2698	27.3883	27.3812	93.09	0.02	0.10997
1048.435	1060	3.3436	31.947132	34.4092	3.2685	27.3886	27.3815	93.09	0.02	0.10999
1049.422	1061	3.3436	31.947643	34.4093	3.2683	27.3887	27.3816	93.09	0.02	0.11373

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1050.408	1062	3.3438	31.948315	34.4093	3.2685	27.3887	27.3816	93.08	0.02	0.11544
1051.395	1063	3.3437	31.948866	34.4096	3.2684	27.3890	27.3818	93.09	0.02	0.11400
1052.381	1064	3.3437	31.949778	34.4102	3.2683	27.3894	27.3823	93.08	0.02	0.11705
1053.368	1065	3.3462	31.953484	34.4115	3.2706	27.3903	27.3831	93.09	0.02	0.11727
1054.354	1066	3.3450	31.953024	34.4117	3.2694	27.3905	27.3833	93.07	0.02	0.11654
1055.341	1067	3.3359	31.945427	34.4117	3.2602	27.3914	27.3842	93.08	0.02	0.11573
1056.328	1068	3.3275	31.938879	34.4122	3.2518	27.3926	27.3854	93.09	0.02	0.11547
1057.314	1069	3.3282	31.940304	34.4127	3.2524	27.3929	27.3857	93.08	0.02	0.11546
1058.301	1070	3.3182	31.931797	34.4124	3.2425	27.3936	27.3865	93.08	0.02	0.11552
1059.287	1071	3.3168	31.931028	34.4124	3.2411	27.3938	27.3866	93.09	0.02	0.11555
1060.274	1072	3.3152	31.930233	34.4127	3.2393	27.3941	27.3870	93.10	0.02	0.11622
1061.260	1073	3.3124	31.928421	34.4129	3.2365	27.3946	27.3874	93.09	0.02	0.11770
1062.247	1074	3.3123	31.929272	34.4136	3.2363	27.3951	27.3880	93.09	0.02	0.12072
1063.233	1075	3.3176	31.935701	34.4152	3.2414	27.3960	27.3888	93.09	0.02	0.12234
1064.220	1076	3.3224	31.941025	34.4160	3.2461	27.3962	27.3889	93.08	0.02	0.12065
1065.206	1077	3.3184	31.938560	34.4168	3.2421	27.3972	27.3899	93.09	0.02	0.12259
1066.193	1078	3.3162	31.937332	34.4171	3.2398	27.3976	27.3904	93.09	0.02	0.12171
1067.179	1079	3.3141	31.936184	34.4174	3.2377	27.3980	27.3908	93.09	0.02	0.12102
1068.166	1080	3.3127	31.935236	34.4172	3.2362	27.3981	27.3908	93.09	0.02	0.12100
1069.152	1081	3.3103	31.933664	34.4174	3.2337	27.3984	27.3912	93.08	0.02	0.12396
1070.139	1082	3.3088	31.932983	34.4176	3.2322	27.3987	27.3915	93.09	0.02	0.12755
1071.125	1083	3.3067	31.931976	34.4181	3.2300	27.3993	27.3921	93.09	0.02	0.12907
1072.112	1084	3.3056	31.931730	34.4184	3.2289	27.3997	27.3925	93.08	0.02	0.12984
1073.098	1085	3.3034	31.930185	34.4184	3.2266	27.3999	27.3926	93.09	0.02	0.12678
1074.085	1086	3.3020	31.929419	34.4185	3.2251	27.4001	27.3928	93.10	0.02	0.12640
1075.071	1087	3.3022	31.930140	34.4186	3.2252	27.4002	27.3929	93.09	0.02	0.12641
1076.058	1088	3.2989	31.927593	34.4185	3.2219	27.4004	27.3932	93.10	0.02	0.12646
1077.044	1089	3.2994	31.928862	34.4190	3.2223	27.4008	27.3935	93.10	0.02	0.12649
1078.031	1090	3.2987	31.928516	34.4188	3.2215	27.4007	27.3934	93.11	0.02	0.12845
1079.017	1091	3.2786	31.908909	34.4159	3.2015	27.4003	27.3930	93.10	0.02	0.13213
1080.004	1092	3.2695	31.901133	34.4156	3.1924	27.4009	27.3936	93.09	0.02	0.13312
1080.990	1093	3.2701	31.902382	34.4160	3.1930	27.4011	27.3938	93.11	0.02	0.12947
1081.976	1094	3.2843	31.917976	34.4192	3.2070	27.4024	27.3951	93.10	0.02	0.12823
1082.963	1095	3.2878	31.922182	34.4201	3.2103	27.4028	27.3955	93.09	0.02	0.13002
1083.949	1096	3.2870	31.922602	34.4209	3.2095	27.4035	27.3962	93.10	0.02	0.12354
1084.936	1097	3.2861	31.922405	34.4211	3.2085	27.4037	27.3964	93.09	0.02	0.12531
1085.922	1098	3.2838	31.920803	34.4211	3.2061	27.4040	27.3967	93.08	0.02	0.12852
1086.908	1099	3.2831	31.920715	34.4212	3.2054	27.4042	27.3968	93.09	0.02	0.13545
1087.895	1100	3.2783	31.916452	34.4206	3.2005	27.4041	27.3968	93.09	0.02	0.13725
1088.881	1101	3.2768	31.915627	34.4208	3.1989	27.4044	27.3971	93.10	0.02	0.13416
1089.868	1102	3.2762	31.915436	34.4206	3.1983	27.4043	27.3970	93.11	0.02	0.13237
1090.854	1103	3.2774	31.917362	34.4212	3.1994	27.4047	27.3973	93.10	0.02	0.13219
1091.840	1104	3.2836	31.924276	34.4224	3.2055	27.4051	27.3977	93.10	0.02	0.13220
1092.827	1105	3.2842	31.925404	34.4226	3.2060	27.4052	27.3978	93.08	0.02	0.13221

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1093.813	1106	3.2831	31.924822	34.4226	3.2048	27.4053	27.3979	93.09	0.02	0.13226
1094.800	1107	3.2789	31.922129	34.4232	3.2006	27.4062	27.3988	93.10	0.02	0.13231
1095.786	1108	3.2783	31.922073	34.4233	3.1999	27.4064	27.3990	93.10	0.02	0.13233
1096.772	1109	3.2769	31.921366	34.4234	3.1984	27.4065	27.3992	93.10	0.02	0.13721
1097.759	1110	3.2731	31.918678	34.4237	3.1945	27.4072	27.3998	93.09	0.02	0.13604
1098.745	1111	3.2698	31.916805	34.4245	3.1912	27.4081	27.4007	93.09	0.02	0.13479
1099.731	1112	3.2688	31.916306	34.4243	3.1902	27.4080	27.4007	93.09	0.02	0.13596
1100.718	1113	3.2661	31.914532	34.4245	3.1874	27.4084	27.4011	93.09	0.02	0.13902
1101.704	1114	3.2638	31.913252	34.4249	3.1851	27.4090	27.4016	93.10	0.02	0.13895
1102.690	1115	3.2600	31.910566	34.4251	3.1812	27.4095	27.4021	93.10	0.02	0.13941
1103.677	1116	3.2550	31.906712	34.4253	3.1762	27.4101	27.4027	93.10	0.02	0.13788
1104.663	1117	3.2519	31.904913	34.4259	3.1730	27.4109	27.4035	93.10	0.02	0.13821
1105.649	1118	3.2506	31.904400	34.4261	3.1716	27.4112	27.4038	93.09	0.02	0.13887
1106.636	1119	3.2498	31.904202	34.4262	3.1708	27.4114	27.4040	93.09	0.02	0.13994
1107.622	1120	3.2475	31.902868	34.4266	3.1684	27.4119	27.4045	93.10	0.02	0.14271
1108.608	1121	3.2443	31.900858	34.4270	3.1651	27.4125	27.4051	93.07	0.02	0.14235
1109.595	1122	3.2426	31.899963	34.4272	3.1634	27.4128	27.4054	93.11	0.02	0.14150
1110.581	1123	3.2414	31.899549	34.4275	3.1621	27.4132	27.4057	93.09	0.02	0.14215
1111.567	1124	3.2393	31.898180	34.4275	3.1599	27.4134	27.4060	93.11	0.02	0.14421
1112.554	1125	3.2367	31.896688	34.4280	3.1572	27.4140	27.4066	93.11	0.02	0.14589
1113.540	1126	3.2339	31.894840	34.4282	3.1544	27.4144	27.4070	93.10	0.02	0.14451
1114.526	1127	3.2316	31.893461	34.4285	3.1520	27.4149	27.4075	93.10	0.02	0.14361
1115.512	1128	3.2313	31.893810	34.4286	3.1517	27.4150	27.4076	93.10	0.02	0.14365
1116.499	1129	3.2312	31.894236	34.4287	3.1515	27.4151	27.4077	93.11	0.02	0.14367
1117.485	1130	3.2318	31.895042	34.4286	3.1520	27.4150	27.4076	93.11	0.02	0.14369
1118.471	1131	3.2320	31.895821	34.4288	3.1521	27.4152	27.4077	93.10	0.02	0.14525
1119.458	1132	3.2319	31.896425	34.4292	3.1519	27.4155	27.4080	93.10	0.02	0.14981
1120.444	1133	3.2315	31.896538	34.4292	3.1515	27.4155	27.4080	93.11	0.02	0.14898
1121.430	1134	3.2304	31.896057	34.4292	3.1504	27.4156	27.4081	93.10	0.02	0.15202
1122.416	1135	3.2262	31.892986	34.4295	3.1461	27.4162	27.4088	93.10	0.02	0.15001
1123.402	1136	3.2227	31.890659	34.4299	3.1425	27.4169	27.4094	93.09	0.02	0.14921
1124.389	1137	3.2163	31.885897	34.4303	3.1361	27.4178	27.4104	93.12	0.02	0.14927
1125.375	1138	3.2127	31.883245	34.4305	3.1324	27.4183	27.4108	93.11	0.02	0.14931
1126.361	1139	3.2092	31.880724	34.4306	3.1289	27.4187	27.4113	93.10	0.02	0.14935
1127.347	1140	3.2043	31.876873	34.4306	3.1240	27.4192	27.4117	93.11	0.02	0.14942
1128.334	1141	3.2019	31.875383	34.4308	3.1215	27.4196	27.4121	93.11	0.02	0.14947
1129.320	1142	3.1950	31.870066	34.4312	3.1146	27.4206	27.4131	93.11	0.02	0.14953
1130.306	1143	3.1887	31.865511	34.4318	3.1083	27.4216	27.4141	93.11	0.02	0.14958
1131.292	1144	3.1854	31.862930	34.4317	3.1049	27.4219	27.4144	93.12	0.02	0.14964
1132.278	1145	3.1808	31.859474	34.4319	3.1002	27.4225	27.4150	93.10	0.02	0.14971
1133.265	1146	3.1786	31.858133	34.4321	3.0980	27.4228	27.4153	93.11	0.02	0.14974
1134.251	1147	3.1747	31.855272	34.4322	3.0941	27.4233	27.4158	93.12	0.02	0.14978
1135.237	1148	3.1706	31.852295	34.4325	3.0899	27.4238	27.4164	93.12	0.02	0.15328
1136.223	1149	3.1626	31.845665	34.4324	3.0819	27.4246	27.4171	93.13	0.02	0.15867

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1137.209	1150	3.1547	31.838942	34.4321	3.0740	27.4250	27.4176	93.10	0.02	0.15812
1138.196	1151	3.1476	31.833082	34.4321	3.0669	27.4257	27.4182	93.11	0.02	0.15568
1139.182	1152	3.1442	31.830647	34.4322	3.0635	27.4261	27.4186	93.12	0.02	0.15550
1140.168	1153	3.1368	31.824919	34.4326	3.0561	27.4270	27.4196	93.12	0.02	0.15548
1141.154	1154	3.1345	31.823343	34.4326	3.0537	27.4273	27.4198	93.12	0.02	0.15553
1142.140	1155	3.1295	31.819574	34.4328	3.0486	27.4280	27.4205	93.13	0.02	0.15560
1143.126	1156	3.1191	31.810699	34.4326	3.0383	27.4287	27.4212	93.12	0.02	0.15568
1144.112	1157	3.1150	31.807446	34.4325	3.0341	27.4290	27.4216	93.13	0.02	0.15573
1145.099	1158	3.1140	31.806929	34.4325	3.0330	27.4291	27.4216	93.12	0.02	0.15579
1146.085	1159	3.1114	31.805092	34.4325	3.0304	27.4293	27.4219	93.13	0.02	0.15583
1147.071	1160	3.1101	31.804424	34.4326	3.0290	27.4295	27.4221	93.13	0.02	0.15586
1148.057	1161	3.1070	31.802477	34.4329	3.0259	27.4301	27.4226	93.13	0.02	0.15590
1149.043	1162	3.1031	31.799877	34.4334	3.0219	27.4308	27.4234	93.12	0.02	0.15596
1150.029	1163	3.1009	31.798706	34.4338	3.0197	27.4313	27.4239	93.12	0.02	0.15602
1151.015	1164	3.0952	31.794062	34.4337	3.0140	27.4318	27.4243	93.13	0.02	0.15607
1152.001	1165	3.0894	31.789423	34.4337	3.0082	27.4323	27.4249	93.13	0.02	0.15613
1152.988	1166	3.0838	31.785448	34.4343	3.0025	27.4333	27.4259	93.13	0.02	0.15619
1153.974	1167	3.0814	31.783678	34.4342	3.0001	27.4335	27.4260	93.13	0.02	0.15624
1154.960	1168	3.0794	31.782272	34.4341	2.9980	27.4336	27.4261	93.13	0.02	0.15629
1155.946	1169	3.0770	31.780806	34.4344	2.9955	27.4340	27.4266	93.13	0.02	0.15654
1156.932	1170	3.0732	31.777618	34.4340	2.9917	27.4341	27.4266	93.10	0.02	0.15899
1157.918	1171	3.0716	31.776625	34.4340	2.9900	27.4342	27.4268	92.93	0.02	0.16158
1158.904	1172	3.0697	31.775318	34.4339	2.9880	27.4344	27.4269	93.10	0.02	0.16003
1159.890	1173	3.0627	31.769306	34.4336	2.9810	27.4347	27.4273	93.13	0.02	0.15884
1160.876	1174	3.0597	31.767096	34.4336	2.9779	27.4350	27.4275	93.13	0.02	0.16153
1161.862	1175	3.0580	31.766294	34.4338	2.9763	27.4353	27.4279	93.13	0.02	0.15971
1162.848	1176	3.0567	31.765549	34.4338	2.9749	27.4355	27.4280	93.13	0.01	0.15560
1163.834	1177	3.0558	31.765278	34.4339	2.9739	27.4356	27.4281	93.13	0.02	0.15920
1164.820	1178	3.0552	31.765368	34.4341	2.9732	27.4359	27.4284	93.13	0.02	0.15679
1165.806	1179	3.0545	31.765100	34.4341	2.9724	27.4359	27.4284	93.13	0.02	0.15700
1166.792	1180	3.0540	31.765247	34.4342	2.9719	27.4361	27.4286	93.13	0.07	0.15606
1167.778	1181	3.0532	31.764910	34.4342	2.9710	27.4361	27.4286	93.13	0.02	0.15681
1168.765	1182	3.0513	31.763887	34.4344	2.9691	27.4365	27.4290	93.13	0.02	0.15653
1169.750	1183	3.0493	31.762703	34.4346	2.9670	27.4368	27.4293	93.13	0.02	0.15699
1170.737	1184	3.0477	31.761923	34.4348	2.9653	27.4371	27.4296	93.13	0.02	0.15863
1171.723	1185	3.0469	31.761644	34.4349	2.9644	27.4373	27.4297	93.13	0.02	0.15949
1172.708	1186	3.0467	31.761932	34.4349	2.9642	27.4373	27.4297	93.13	0.02	0.15757
1173.695	1187	3.0461	31.761814	34.4349	2.9635	27.4374	27.4298	93.13	0.02	0.15834
1174.681	1188	3.0402	31.757713	34.4357	2.9575	27.4385	27.4310	93.13	0.02	0.15878
1175.667	1189	3.0372	31.755915	34.4362	2.9545	27.4392	27.4316	93.13	0.02	0.16077
1176.653	1190	3.0342	31.753920	34.4364	2.9514	27.4397	27.4321	93.13	0.02	0.15962
1177.639	1191	3.0308	31.751965	34.4371	2.9480	27.4405	27.4329	93.13	0.02	0.15943
1178.625	1192	3.0301	31.752047	34.4374	2.9472	27.4408	27.4333	93.13	0.01	0.16039
1179.610	1193	3.0293	31.751865	34.4376	2.9464	27.4410	27.4335	93.13	0.02	0.16301

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1180.596	1194	3.0280	31.751293	34.4377	2.9450	27.4413	27.4337	93.13	0.02	0.16526
1181.582	1195	3.0265	31.750587	34.4380	2.9434	27.4416	27.4341	93.13	0.02	0.16386
1182.568	1196	3.0227	31.748013	34.4383	2.9396	27.4422	27.4347	93.13	0.02	0.16287
1183.554	1197	3.0171	31.744356	34.4394	2.9339	27.4436	27.4360	93.13	0.02	0.16297
1184.540	1198	3.0158	31.743868	34.4396	2.9326	27.4439	27.4364	93.13	0.01	0.16300
1185.526	1199	3.0148	31.743517	34.4398	2.9315	27.4442	27.4366	93.09	0.02	0.16303
1186.512	1200	3.0144	31.743549	34.4397	2.9310	27.4441	27.4365	93.13	0.02	0.16307
1187.498	1201	3.0156	31.745300	34.4400	2.9322	27.4442	27.4367	93.13	0.02	0.16310
1188.484	1202	3.0117	31.742548	34.4403	2.9282	27.4448	27.4373	93.13	0.02	0.16683
1189.470	1203	3.0093	31.740595	34.4400	2.9257	27.4448	27.4373	93.13	0.02	0.17277
1190.456	1204	3.0063	31.738308	34.4399	2.9226	27.4451	27.4375	93.13	0.02	0.17433
1191.442	1205	3.0058	31.738405	34.4400	2.9221	27.4452	27.4376	93.13	0.02	0.17435
1192.428	1206	3.0052	31.738396	34.4401	2.9215	27.4453	27.4377	93.13	0.02	0.17270
1193.414	1207	3.0031	31.737320	34.4405	2.9193	27.4458	27.4382	93.13	0.02	0.17110
1194.400	1208	3.0020	31.736786	34.4406	2.9181	27.4460	27.4384	93.13	0.02	0.17142
1195.385	1209	3.0008	31.736309	34.4407	2.9169	27.4462	27.4386	93.13	0.02	0.17501
1196.371	1210	2.9995	31.735617	34.4407	2.9155	27.4464	27.4387	93.13	0.02	0.17696
1197.357	1211	2.9986	31.735529	34.4410	2.9145	27.4467	27.4391	93.13	0.02	0.17603
1198.343	1212	2.9995	31.737059	34.4414	2.9154	27.4469	27.4393	93.13	0.02	0.17437
1199.329	1213	3.0137	31.752403	34.4444	2.9293	27.4481	27.4404	93.13	0.02	0.17433
1200.315	1214	3.0291	31.768379	34.4470	2.9445	27.4487	27.4410	93.13	0.02	0.17427
1201.301	1215	3.0287	31.768299	34.4467	2.9441	27.4486	27.4409	93.13	0.02	0.17430
1202.287	1216	3.0199	31.760452	34.4461	2.9352	27.4489	27.4412	93.13	0.02	0.17438
1203.272	1217	3.0157	31.757193	34.4461	2.9310	27.4492	27.4415	93.13	0.02	0.17477
1204.258	1218	3.0095	31.751816	34.4456	2.9248	27.4494	27.4417	93.13	0.02	0.17999
1205.244	1219	3.0032	31.746494	34.4453	2.9185	27.4497	27.4421	93.13	0.02	0.18685
1206.230	1220	2.9994	31.743378	34.4452	2.9145	27.4500	27.4423	93.13	0.02	0.18477
1207.216	1221	3.0006	31.745487	34.4459	2.9157	27.4504	27.4427	93.13	0.02	0.18425
1208.202	1222	2.9994	31.745298	34.4464	2.9144	27.4510	27.4433	93.13	0.02	0.19035
1209.188	1223	2.9957	31.742601	34.4465	2.9107	27.4514	27.4437	93.13	0.02	0.18732
1210.173	1224	2.9961	31.743374	34.4465	2.9110	27.4514	27.4437	93.13	0.02	0.18563
1211.159	1225	2.9899	31.738249	34.4464	2.9048	27.4519	27.4442	93.13	0.02	0.18612
1212.145	1226	2.9823	31.732721	34.4472	2.8972	27.4532	27.4455	93.13	0.02	0.18620
1213.131	1227	2.9798	31.730682	34.4469	2.8946	27.4532	27.4455	93.13	0.02	0.18906
1214.117	1228	2.9782	31.729891	34.4471	2.8930	27.4535	27.4458	93.13	0.02	0.19178
1215.103	1229	2.9779	31.730042	34.4471	2.8926	27.4535	27.4458	93.13	0.02	0.19048
1216.088	1230	2.9797	31.732288	34.4474	2.8943	27.4536	27.4459	93.13	0.02	0.18768
1217.074	1231	2.9834	31.736994	34.4487	2.8979	27.4543	27.4466	93.13	0.02	0.19024
1218.060	1232	2.9864	31.740759	34.4496	2.9007	27.4548	27.4470	93.14	0.02	0.19410
1219.046	1233	2.9846	31.739521	34.4495	2.8988	27.4549	27.4471	93.13	0.02	0.19146
1220.031	1234	2.9801	31.736031	34.4494	2.8944	27.4552	27.4475	93.13	0.02	0.19159
1221.017	1235	2.9746	31.731998	34.4499	2.8888	27.4561	27.4483	93.13	0.02	0.19167
1222.003	1236	2.9745	31.732864	34.4506	2.8886	27.4566	27.4489	93.13	0.02	0.19318
1222.989	1237	2.9750	31.734041	34.4510	2.8890	27.4569	27.4491	93.13	0.02	0.19863

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1223.975	1238	2.9738	31.733572	34.4511	2.8878	27.4572	27.4494	93.13	0.02	0.20140
1224.960	1239	2.9696	31.730740	34.4516	2.8836	27.4579	27.4501	93.13	0.02	0.20043
1225.946	1240	2.9688	31.730539	34.4517	2.8827	27.4581	27.4503	93.13	0.02	0.19826
1226.932	1241	2.9682	31.730494	34.4518	2.8820	27.4582	27.4504	93.13	0.02	0.19735
1227.918	1242	2.9680	31.730721	34.4517	2.8818	27.4582	27.4504	93.13	0.02	0.19770
1228.903	1243	2.9678	31.731092	34.4519	2.8815	27.4583	27.4506	93.14	0.02	0.20243
1229.889	1244	2.9655	31.729679	34.4521	2.8791	27.4587	27.4509	93.13	0.02	0.21005
1230.875	1245	2.9620	31.727146	34.4523	2.8756	27.4592	27.4514	93.13	0.02	0.20739
1231.860	1246	2.9582	31.724487	34.4525	2.8717	27.4597	27.4519	93.13	0.02	0.20309
1232.846	1247	2.9562	31.723145	34.4525	2.8697	27.4599	27.4521	93.13	0.02	0.20318
1233.832	1248	2.9537	31.721590	34.4528	2.8671	27.4603	27.4525	93.13	0.02	0.20324
1234.818	1249	2.9510	31.719704	34.4529	2.8643	27.4606	27.4528	93.13	0.02	0.20329
1235.803	1250	2.9502	31.719599	34.4530	2.8635	27.4608	27.4530	93.13	0.02	0.20332
1236.789	1251	2.9496	31.719694	34.4533	2.8628	27.4611	27.4533	93.14	0.02	0.20400
1237.775	1252	2.9502	31.720835	34.4536	2.8633	27.4613	27.4535	93.13	0.02	0.20643
1238.760	1253	2.9485	31.720165	34.4540	2.8616	27.4618	27.4540	93.13	0.02	0.20964
1239.746	1254	2.9425	31.716078	34.4550	2.8555	27.4631	27.4553	93.13	0.01	0.20556
1240.732	1255	2.9403	31.714943	34.4554	2.8533	27.4636	27.4558	93.13	0.02	0.20708
1241.718	1256	2.9381	31.713758	34.4557	2.8510	27.4641	27.4563	93.14	0.02	0.21165
1242.703	1257	2.9359	31.712374	34.4559	2.8488	27.4644	27.4566	93.14	0.02	0.21128
1243.689	1258	2.9327	31.710033	34.4559	2.8455	27.4647	27.4569	93.15	0.02	0.20923
1244.675	1259	2.9292	31.707569	34.4561	2.8420	27.4653	27.4574	93.14	0.02	0.20932
1245.660	1260	2.9246	31.704321	34.4566	2.8373	27.4660	27.4582	93.13	0.02	0.21084
1246.646	1261	2.9222	31.703022	34.4570	2.8349	27.4666	27.4588	93.14	0.02	0.21880
1247.632	1262	2.9188	31.700590	34.4571	2.8315	27.4670	27.4591	93.13	0.02	0.22030
1248.617	1263	2.9164	31.699064	34.4574	2.8290	27.4674	27.4596	93.14	0.02	0.21592
1249.603	1264	2.9141	31.697630	34.4575	2.8266	27.4677	27.4599	93.14	0.02	0.21512
1250.589	1265	2.9123	31.696753	34.4578	2.8248	27.4681	27.4603	93.13	0.02	0.21521
1251.574	1266	2.9121	31.697399	34.4584	2.8245	27.4686	27.4607	93.13	0.02	0.21828
1252.560	1267	2.9072	31.693703	34.4585	2.8195	27.4692	27.4613	93.14	0.02	0.22215
1253.545	1268	2.9035	31.690855	34.4585	2.8158	27.4695	27.4616	93.14	0.02	0.22311
1254.531	1269	2.9026	31.690489	34.4586	2.8148	27.4696	27.4618	93.14	0.02	0.22419
1255.517	1270	2.9018	31.690086	34.4584	2.8139	27.4696	27.4617	93.15	0.02	0.22103
1256.502	1271	2.9011	31.690039	34.4585	2.8132	27.4697	27.4618	93.14	0.02	0.22103
1257.488	1272	2.8984	31.688147	34.4586	2.8104	27.4700	27.4622	93.14	0.02	0.22109
1258.473	1273	2.8968	31.687338	34.4588	2.8088	27.4703	27.4625	93.13	0.02	0.22416
1259.459	1274	2.8948	31.686026	34.4588	2.8067	27.4705	27.4626	93.13	0.01	0.22714
1260.445	1275	2.8927	31.684904	34.4592	2.8045	27.4710	27.4631	93.14	0.02	0.22431
1261.430	1276	2.8922	31.684908	34.4592	2.8040	27.4711	27.4632	93.14	0.02	0.22578
1262.416	1277	2.8904	31.683922	34.4594	2.8021	27.4715	27.4636	93.14	0.02	0.22727
1263.401	1278	2.8876	31.682066	34.4596	2.7992	27.4719	27.4640	93.13	0.02	0.22889
1264.387	1279	2.8835	31.679462	34.4602	2.7952	27.4727	27.4648	93.14	0.01	0.22886
1265.373	1280	2.8811	31.678164	34.4607	2.7927	27.4733	27.4654	93.14	0.02	0.22729
1266.358	1281	2.8800	31.677824	34.4610	2.7915	27.4736	27.4657	93.15	0.02	0.22713

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1267.344	1282	2.8791	31.677675	34.4612	2.7905	27.4739	27.4660	93.14	0.02	0.22720
1268.329	1283	2.8787	31.677935	34.4615	2.7900	27.4741	27.4662	93.14	0.02	0.22727
1269.315	1284	2.8785	31.678230	34.4615	2.7898	27.4742	27.4663	93.14	0.02	0.22731
1270.300	1285	2.8777	31.678211	34.4619	2.7889	27.4746	27.4666	93.14	0.01	0.23167
1271.286	1286	2.8764	31.677603	34.4620	2.7875	27.4748	27.4668	93.14	0.02	0.23359
1272.271	1287	2.8739	31.676155	34.4623	2.7850	27.4753	27.4674	93.15	0.01	0.23459
1273.257	1288	2.8720	31.675219	34.4627	2.7830	27.4758	27.4678	93.15	0.02	0.23545
1274.242	1289	2.8652	31.670080	34.4632	2.7762	27.4767	27.4688	93.15	0.02	0.23366
1275.228	1290	2.8592	31.665251	34.4631	2.7702	27.4772	27.4693	93.14	0.02	0.23716
1276.214	1291	2.8547	31.661791	34.4632	2.7657	27.4777	27.4698	93.14	0.02	0.23725
1277.199	1292	2.8512	31.659317	34.4635	2.7621	27.4782	27.4703	93.14	0.02	0.23781
1278.185	1293	2.8491	31.658186	34.4638	2.7600	27.4786	27.4707	93.14	0.02	0.23789
1279.170	1294	2.8471	31.657078	34.4640	2.7579	27.4790	27.4711	93.13	0.02	0.24275
1280.156	1295	2.8452	31.656038	34.4643	2.7559	27.4794	27.4715	93.15	0.01	0.23981
1281.141	1296	2.8424	31.654333	34.4647	2.7531	27.4800	27.4720	93.15	0.02	0.23916
1282.127	1297	2.8405	31.653891	34.4657	2.7511	27.4809	27.4730	93.15	0.02	0.24061
1283.112	1298	2.8409	31.655352	34.4665	2.7514	27.4816	27.4736	93.14	0.02	0.24378
1284.098	1299	2.8399	31.655226	34.4669	2.7503	27.4820	27.4740	93.14	0.01	0.24685
1285.083	1300	2.8394	31.655497	34.4672	2.7498	27.4823	27.4744	93.14	0.02	0.24838
1286.068	1301	2.8390	31.656340	34.4682	2.7493	27.4831	27.4751	93.15	0.01	0.24641
1287.054	1302	2.8401	31.658215	34.4688	2.7503	27.4835	27.4755	93.15	0.02	0.24569
1288.039	1303	2.8423	31.661188	34.4695	2.7524	27.4839	27.4759	93.16	0.02	0.25674
1289.025	1304	2.8425	31.661901	34.4697	2.7525	27.4840	27.4760	93.15	0.02	0.25623
1290.010	1305	2.8412	31.661366	34.4699	2.7511	27.4843	27.4763	93.14	0.02	0.25285
1290.996	1306	2.8399	31.660872	34.4702	2.7497	27.4847	27.4767	93.14	0.02	0.25959
1291.981	1307	2.8386	31.660364	34.4704	2.7484	27.4850	27.4770	93.14	0.01	0.26176
1292.967	1308	2.8372	31.659792	34.4707	2.7470	27.4853	27.4773	93.14	0.02	0.25920
1293.952	1309	2.8360	31.659336	34.4709	2.7457	27.4856	27.4775	93.14	0.02	0.26751
1294.938	1310	2.8352	31.659031	34.4709	2.7448	27.4856	27.4776	93.15	0.01	0.26597
1295.923	1311	2.8328	31.657528	34.4711	2.7424	27.4860	27.4780	93.14	0.02	0.26325
1296.908	1312	2.8307	31.656240	34.4712	2.7402	27.4863	27.4783	93.15	0.02	0.26839
1297.894	1313	2.8268	31.653633	34.4717	2.7363	27.4871	27.4790	93.15	0.01	0.27275
1298.879	1314	2.8253	31.652849	34.4718	2.7347	27.4873	27.4793	93.14	0.02	0.27110
1299.865	1315	2.8205	31.649622	34.4725	2.7299	27.4882	27.4802	93.15	0.02	0.26827
1300.850	1316	2.8159	31.646627	34.4732	2.7252	27.4892	27.4812	93.15	0.02	0.26817
1301.835	1317	2.8133	31.645144	34.4737	2.7226	27.4899	27.4818	93.14	0.02	0.26824
1302.821	1318	2.8096	31.642855	34.4743	2.7189	27.4907	27.4826	93.14	0.02	0.27311
1303.806	1319	2.8074	31.641859	34.4749	2.7166	27.4914	27.4834	93.14	0.02	0.27972
1304.792	1320	2.8068	31.641817	34.4750	2.7159	27.4915	27.4834	93.14	0.02	0.27442
1305.777	1321	2.8052	31.640930	34.4751	2.7142	27.4917	27.4837	93.14	0.01	0.27688
1306.762	1322	2.8036	31.640280	34.4755	2.7126	27.4922	27.4842	93.14	0.02	0.28357
1307.748	1323	2.8026	31.639849	34.4756	2.7115	27.4923	27.4843	93.13	0.02	0.28641
1308.733	1324	2.8021	31.639977	34.4757	2.7109	27.4925	27.4844	93.14	0.02	0.28430
1309.719	1325	2.8018	31.640299	34.4759	2.7106	27.4926	27.4846	93.13	0.02	0.28910

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1310.704	1326	2.8012	31.640158	34.4758	2.7099	27.4927	27.4846	93.13	0.02	0.28847
1311.689	1327	2.7989	31.638561	34.4759	2.7075	27.4929	27.4848	93.14	0.01	0.28652
1312.675	1328	2.7952	31.636042	34.4762	2.7038	27.4935	27.4854	93.14	0.01	0.28962
1313.660	1329	2.7925	31.634249	34.4763	2.7011	27.4939	27.4858	93.14	0.02	0.29145
1314.645	1330	2.7846	31.628511	34.4772	2.6932	27.4953	27.4872	93.15	0.02	0.29116
1315.630	1331	2.7811	31.626060	34.4776	2.6896	27.4958	27.4878	93.16	0.02	0.29262
1316.616	1332	2.7760	31.622353	34.4779	2.6845	27.4966	27.4885	93.15	0.02	0.29419
1317.601	1333	2.7745	31.621532	34.4780	2.6829	27.4968	27.4888	93.15	0.02	0.29190
1318.587	1334	2.7700	31.618172	34.4782	2.6784	27.4973	27.4893	93.16	0.02	0.29249
1319.572	1335	2.7651	31.614912	34.4789	2.6734	27.4983	27.4903	93.16	0.01	0.30191
1320.557	1336	2.7631	31.613708	34.4790	2.6714	27.4986	27.4905	93.17	0.02	0.30304
1321.542	1337	2.7622	31.613497	34.4792	2.6705	27.4988	27.4908	93.17	0.02	0.29816
1322.528	1338	2.7615	31.613380	34.4793	2.6697	27.4990	27.4909	93.14	0.02	0.29780
1323.513	1339	2.7606	31.613258	34.4796	2.6687	27.4993	27.4913	93.14	0.02	0.30216
1324.498	1340	2.7591	31.612387	34.4796	2.6671	27.4994	27.4914	93.15	0.01	0.30653
1325.484	1341	2.7577	31.611618	34.4797	2.6656	27.4997	27.4916	93.15	0.02	0.30844
1326.469	1342	2.7569	31.611425	34.4798	2.6647	27.4998	27.4918	93.15	0.02	0.30489
1327.454	1343	2.7556	31.610924	34.4801	2.6634	27.5001	27.4920	93.16	0.01	0.30414
1328.439	1344	2.7525	31.608992	34.4805	2.6603	27.5007	27.4926	93.16	0.02	0.30999
1329.425	1345	2.7493	31.606651	34.4805	2.6570	27.5010	27.4930	93.16	0.02	0.31516
1330.410	1346	2.7464	31.604761	34.4808	2.6541	27.5015	27.4935	93.16	0.01	0.31323
1331.395	1347	2.7461	31.604910	34.4808	2.6537	27.5016	27.4935	93.14	0.02	0.30995
1332.380	1348	2.7452	31.604660	34.4810	2.6527	27.5018	27.4937	93.15	0.02	0.30978
1333.366	1349	2.7450	31.604906	34.4809	2.6524	27.5018	27.4937	93.15	0.02	0.30983
1334.351	1350	2.7446	31.604990	34.4809	2.6520	27.5018	27.4937	93.15	0.01	0.30991
1335.336	1351	2.7422	31.603392	34.4810	2.6495	27.5021	27.4940	93.17	0.02	0.31418
1336.322	1352	2.7367	31.599157	34.4812	2.6440	27.5027	27.4946	93.18	0.02	0.32020
1337.307	1353	2.7344	31.597712	34.4814	2.6416	27.5031	27.4950	93.16	0.01	0.31772
1338.292	1354	2.7342	31.598005	34.4815	2.6414	27.5032	27.4950	93.16	0.01	0.31598
1339.277	1355	2.7342	31.598352	34.4813	2.6413	27.5031	27.4949	93.17	0.02	0.31598
1340.262	1356	2.7337	31.598557	34.4816	2.6408	27.5033	27.4952	93.15	0.01	0.31604
1341.248	1357	2.7330	31.598381	34.4817	2.6399	27.5035	27.4954	93.16	0.02	0.31609
1342.233	1358	2.7324	31.598314	34.4817	2.6392	27.5036	27.4954	93.16	0.01	0.31615
1343.218	1359	2.7306	31.597389	34.4819	2.6374	27.5039	27.4957	93.17	0.02	0.31622
1344.203	1360	2.7303	31.597435	34.4819	2.6370	27.5039	27.4957	93.16	0.01	0.31789
1345.188	1361	2.7296	31.597458	34.4821	2.6362	27.5041	27.4960	93.17	0.01	0.31954
1346.174	1362	2.7274	31.596197	34.4824	2.6340	27.5045	27.4964	93.16	0.02	0.32381
1347.159	1363	2.7258	31.595396	34.4827	2.6323	27.5049	27.4967	93.16	0.02	0.32229
1348.144	1364	2.7246	31.595009	34.4829	2.6311	27.5052	27.4971	93.17	0.02	0.31921
1349.129	1365	2.7236	31.594378	34.4827	2.6300	27.5052	27.4970	93.17	0.01	0.32425
1350.114	1366	2.7218	31.593525	34.4831	2.6281	27.5056	27.4974	93.17	0.01	0.32560
1351.099	1367	2.7209	31.593443	34.4834	2.6271	27.5060	27.4978	93.17	0.02	0.32251
1352.085	1368	2.7177	31.591385	34.4838	2.6240	27.5065	27.4983	93.17	0.01	0.32257
1353.070	1369	2.7163	31.590761	34.4841	2.6224	27.5069	27.4987	93.16	0.01	0.32264

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1354.055	1370	2.7162	31.591078	34.4840	2.6223	27.5068	27.4986	93.18	0.01	0.32317
1355.040	1371	2.7145	31.589993	34.4840	2.6205	27.5070	27.4988	93.16	0.02	0.32953
1356.025	1372	2.7106	31.587303	34.4843	2.6166	27.5076	27.4994	93.18	0.01	0.33503
1357.010	1373	2.7084	31.585957	34.4845	2.6144	27.5079	27.4997	93.17	0.02	0.33160
1357.996	1374	2.7060	31.584673	34.4850	2.6119	27.5085	27.5004	93.17	0.02	0.32876
1358.981	1375	2.7044	31.583941	34.4853	2.6102	27.5089	27.5007	93.16	0.01	0.32886
1359.966	1376	2.7037	31.583881	34.4855	2.6094	27.5091	27.5009	93.16	0.02	0.33073
1360.951	1377	2.7028	31.583584	34.4855	2.6085	27.5093	27.5011	93.16	0.01	0.33415
1361.936	1378	2.7013	31.582794	34.4857	2.6069	27.5096	27.5013	93.17	0.01	0.33624
1362.921	1379	2.6976	31.580332	34.4861	2.6031	27.5102	27.5020	93.15	0.02	0.33944
1363.906	1380	2.6953	31.578936	34.4863	2.6008	27.5106	27.5023	93.16	0.01	0.33594
1364.891	1381	2.6928	31.577290	34.4865	2.5982	27.5109	27.5027	93.17	0.01	0.33602
1365.876	1382	2.6912	31.576334	34.4866	2.5965	27.5111	27.5029	93.17	0.01	0.33994
1366.862	1383	2.6906	31.576340	34.4866	2.5960	27.5112	27.5030	93.18	0.01	0.34437
1367.847	1384	2.6893	31.575731	34.4868	2.5945	27.5115	27.5032	93.18	0.01	0.34384
1368.832	1385	2.6868	31.574286	34.4871	2.5920	27.5120	27.5037	93.17	0.02	0.34188
1369.817	1386	2.6856	31.573761	34.4873	2.5907	27.5122	27.5040	93.18	0.02	0.34108
1370.802	1387	2.6844	31.573269	34.4875	2.5895	27.5124	27.5042	93.18	0.02	0.34252
1371.787	1388	2.6805	31.570925	34.4882	2.5856	27.5134	27.5051	93.18	0.02	0.34604
1372.772	1389	2.6777	31.569065	34.4884	2.5827	27.5138	27.5055	93.16	0.02	0.35273
1373.757	1390	2.6755	31.567738	34.4887	2.5804	27.5142	27.5060	93.18	0.01	0.35158
1374.742	1391	2.6710	31.564579	34.4891	2.5758	27.5149	27.5067	93.17	0.02	0.34777
1375.727	1392	2.6686	31.563141	34.4894	2.5734	27.5154	27.5072	93.18	0.01	0.34760
1376.712	1393	2.6670	31.562410	34.4897	2.5718	27.5157	27.5075	93.18	0.01	0.34946
1377.697	1394	2.6658	31.561672	34.4896	2.5705	27.5158	27.5075	93.18	0.01	0.35610
1378.682	1395	2.6641	31.560930	34.4899	2.5688	27.5162	27.5079	93.18	0.02	0.35739
1379.667	1396	2.6627	31.560175	34.4900	2.5673	27.5164	27.5081	93.18	0.01	0.35550
1380.652	1397	2.6602	31.558544	34.4901	2.5647	27.5167	27.5085	93.17	0.02	0.36197
1381.637	1398	2.6563	31.555862	34.4905	2.5608	27.5174	27.5091	93.17	0.02	0.36711
1382.622	1399	2.6551	31.555441	34.4908	2.5595	27.5177	27.5094	93.17	0.01	0.36274
1383.608	1400	2.6542	31.555098	34.4908	2.5586	27.5178	27.5095	93.14	0.01	0.35953
1384.593	1401	2.6530	31.554733	34.4911	2.5573	27.5181	27.5098	93.17	0.01	0.36096
1385.578	1402	2.6500	31.552982	34.4917	2.5542	27.5189	27.5106	93.18	0.02	0.36843
1386.563	1403	2.6481	31.552053	34.4920	2.5523	27.5193	27.5110	93.18	0.01	0.36924
1387.547	1404	2.6478	31.552206	34.4921	2.5519	27.5193	27.5111	93.17	0.02	0.36556
1388.532	1405	2.6459	31.551268	34.4924	2.5500	27.5198	27.5115	93.18	0.02	0.36638
1389.517	1406	2.6441	31.550438	34.4928	2.5480	27.5203	27.5120	93.17	0.01	0.37189
1390.502	1407	2.6423	31.549717	34.4933	2.5462	27.5209	27.5126	93.18	0.01	0.37858
1391.487	1408	2.6418	31.549829	34.4935	2.5456	27.5210	27.5127	93.17	0.02	0.37595
1392.472	1409	2.6417	31.550312	34.4937	2.5455	27.5212	27.5129	93.18	0.02	0.37184
1393.457	1410	2.6405	31.549839	34.4939	2.5442	27.5215	27.5132	93.17	0.01	0.37348
1394.442	1411	2.6395	31.549549	34.4941	2.5431	27.5217	27.5134	93.16	0.01	0.38203
1395.427	1412	2.6387	31.549442	34.4942	2.5423	27.5219	27.5136	93.18	0.02	0.38141
1396.412	1413	2.6379	31.549376	34.4945	2.5414	27.5222	27.5139	93.18	0.02	0.37977

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1397.397	1414	2.6380	31.549921	34.4946	2.5414	27.5223	27.5139	93.18	0.01	0.38592
1398.382	1415	2.6331	31.546801	34.4954	2.5365	27.5234	27.5151	93.18	0.02	0.38573
1399.367	1416	2.6308	31.545797	34.4962	2.5341	27.5242	27.5159	93.18	0.02	0.38632
1400.352	1417	2.6306	31.545988	34.4961	2.5338	27.5242	27.5158	93.17	0.02	0.38664
1401.337	1418	2.6281	31.544569	34.4966	2.5313	27.5247	27.5164	93.18	0.01	0.38418
1402.322	1419	2.6236	31.541742	34.4974	2.5267	27.5258	27.5175	93.13	0.01	0.39209
1403.307	1420	2.6225	31.541292	34.4975	2.5256	27.5259	27.5176	93.18	0.01	0.39427
1404.292	1421	2.6210	31.540693	34.4979	2.5240	27.5264	27.5180	93.17	0.02	0.39039
1405.277	1422	2.6201	31.540348	34.4979	2.5230	27.5265	27.5181	93.17	0.02	0.39702
1406.262	1423	2.6188	31.539946	34.4983	2.5216	27.5269	27.5186	93.16	0.02	0.40344
1407.246	1424	2.6176	31.539602	34.4986	2.5205	27.5273	27.5189	93.17	0.02	0.39912
1408.231	1425	2.6141	31.537466	34.4993	2.5168	27.5281	27.5198	93.17	0.02	0.40233
1409.216	1426	2.6092	31.534195	34.4999	2.5120	27.5290	27.5207	93.18	0.02	0.40797
1410.201	1427	2.6076	31.533337	34.5001	2.5103	27.5293	27.5210	93.18	0.02	0.40654
1411.186	1428	2.6070	31.533258	34.5001	2.5096	27.5294	27.5211	93.18	0.02	0.40288
1412.171	1429	2.6056	31.532282	34.5000	2.5081	27.5294	27.5210	93.17	0.01	0.40222
1413.156	1430	2.6014	31.529427	34.5003	2.5040	27.5301	27.5217	93.18	0.02	0.41020
1414.141	1431	2.6003	31.529133	34.5006	2.5028	27.5304	27.5220	93.17	0.01	0.41265
1415.126	1432	2.5996	31.528973	34.5007	2.5020	27.5305	27.5222	93.17	0.01	0.41946
1416.110	1433	2.5990	31.529005	34.5009	2.5013	27.5307	27.5223	93.17	0.02	0.41796
1417.095	1434	2.5973	31.528048	34.5011	2.4995	27.5310	27.5226	93.17	0.02	0.41523
1418.080	1435	2.5951	31.527115	34.5017	2.4973	27.5317	27.5234	93.16	0.01	0.41646
1419.065	1436	2.5939	31.526491	34.5017	2.4961	27.5318	27.5234	93.16	0.01	0.42160
1420.050	1437	2.5922	31.525593	34.5019	2.4943	27.5321	27.5237	93.17	0.02	0.42524
1421.035	1438	2.5902	31.524324	34.5020	2.4922	27.5324	27.5240	93.17	0.02	0.42330
1422.020	1439	2.5885	31.523592	34.5024	2.4905	27.5329	27.5245	93.18	0.01	0.42064
1423.004	1440	2.5864	31.522194	34.5024	2.4883	27.5331	27.5247	93.18	0.02	0.42419
1423.989	1441	2.5838	31.520599	34.5028	2.4856	27.5336	27.5252	93.17	0.01	0.43264
1424.974	1442	2.5822	31.519880	34.5030	2.4840	27.5339	27.5255	93.17	0.02	0.43127
1425.959	1443	2.5813	31.519459	34.5030	2.4830	27.5340	27.5256	93.17	0.01	0.42743
1426.944	1444	2.5775	31.516964	34.5035	2.4791	27.5347	27.5263	93.16	0.01	0.42683
1427.928	1445	2.5743	31.514786	34.5037	2.4759	27.5352	27.5267	93.16	0.02	0.43178
1428.913	1446	2.5738	31.514740	34.5037	2.4753	27.5352	27.5268	93.18	0.02	0.43515
1429.898	1447	2.5694	31.511536	34.5039	2.4709	27.5358	27.5273	93.18	0.01	0.43653
1430.883	1448	2.5673	31.510252	34.5041	2.4688	27.5361	27.5277	93.17	0.02	0.43417
1431.868	1449	2.5657	31.509399	34.5042	2.4671	27.5363	27.5279	93.17	0.02	0.44309
1432.852	1450	2.5627	31.507135	34.5042	2.4640	27.5366	27.5282	93.17	0.02	0.44460
1433.837	1451	2.5604	31.505690	34.5044	2.4617	27.5369	27.5285	93.18	0.01	0.44002
1434.822	1452	2.5588	31.504803	34.5045	2.4600	27.5371	27.5287	93.18	0.01	0.43928
1435.807	1453	2.5579	31.504379	34.5044	2.4591	27.5371	27.5287	93.17	0.01	0.43936
1436.792	1454	2.5550	31.502434	34.5046	2.4562	27.5375	27.5291	93.18	0.01	0.44235
1437.776	1455	2.5515	31.500120	34.5051	2.4525	27.5382	27.5298	93.18	0.01	0.45051
1438.761	1456	2.5498	31.499201	34.5052	2.4509	27.5384	27.5300	93.18	0.02	0.44971
1439.746	1457	2.5496	31.499456	34.5053	2.4505	27.5385	27.5301	93.18	0.01	0.44573

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m ³]	[kg/m ³]			[ml/l]
1440.731	1458	2.5496	31.500036	34.5054	2.4505	27.5386	27.5302	93.18	0.02	0.44570
1441.715	1459	2.5486	31.499649	34.5055	2.4494	27.5388	27.5303	93.18	0.02	0.44580
1442.700	1460	2.5458	31.497873	34.5058	2.4465	27.5393	27.5309	93.18	0.01	0.44788
1443.685	1461	2.5451	31.497637	34.5058	2.4458	27.5393	27.5309	93.18	0.01	0.45590
1444.670	1462	2.5443	31.497366	34.5058	2.4449	27.5394	27.5310	93.17	0.01	0.45330
1445.654	1463	2.5392	31.493834	34.5064	2.4398	27.5403	27.5319	93.18	0.01	0.45409
1446.639	1464	2.5360	31.491875	34.5069	2.4365	27.5410	27.5326	93.18	0.02	0.45264
1447.624	1465	2.5346	31.491093	34.5069	2.4351	27.5412	27.5327	93.18	0.02	0.45234
1448.608	1466	2.5338	31.491032	34.5072	2.4342	27.5414	27.5330	93.18	0.01	0.45923
1449.593	1467	2.5285	31.487066	34.5075	2.4288	27.5422	27.5337	93.18	0.02	0.46208
1450.578	1468	2.5272	31.486528	34.5077	2.4275	27.5424	27.5340	93.18	0.01	0.46213
1451.563	1469	2.5258	31.485842	34.5078	2.4261	27.5426	27.5341	93.17	0.02	0.46018
1452.547	1470	2.5245	31.485260	34.5080	2.4247	27.5429	27.5345	93.18	0.01	0.45927
1453.532	1471	2.5233	31.484676	34.5081	2.4234	27.5431	27.5346	93.18	0.01	0.46704
1454.517	1472	2.5223	31.484386	34.5082	2.4224	27.5433	27.5348	93.18	0.01	0.47164
1455.501	1473	2.5217	31.484217	34.5082	2.4217	27.5433	27.5348	93.18	0.02	0.46676
1456.486	1474	2.5215	31.484480	34.5082	2.4214	27.5434	27.5349	93.18	0.02	0.46589
1457.471	1475	2.5208	31.484446	34.5084	2.4206	27.5436	27.5351	93.18	0.02	0.47697
1458.455	1476	2.5197	31.483902	34.5084	2.4194	27.5437	27.5352	93.18	0.01	0.47500
1459.440	1477	2.5180	31.483004	34.5086	2.4177	27.5440	27.5355	93.18	0.02	0.47121
1460.425	1478	2.5177	31.483137	34.5086	2.4173	27.5440	27.5355	93.12	0.01	0.47116
1461.409	1479	2.5175	31.483334	34.5086	2.4170	27.5440	27.5355	93.18	0.01	0.47125
1462.394	1480	2.5169	31.483315	34.5086	2.4164	27.5441	27.5356	93.18	0.01	0.47377
1463.379	1481	2.5161	31.483150	34.5088	2.4155	27.5443	27.5358	93.17	0.01	0.47839
1464.363	1482	2.5158	31.483303	34.5088	2.4151	27.5443	27.5358	93.18	0.01	0.47515
1465.348	1483	2.5154	31.483381	34.5088	2.4146	27.5444	27.5359	93.18	0.01	0.47488
1466.332	1484	2.5143	31.482822	34.5087	2.4135	27.5444	27.5359	93.18	0.02	0.48127
1467.317	1485	2.5091	31.479031	34.5092	2.4083	27.5452	27.5367	93.18	0.01	0.47977
1468.302	1486	2.5049	31.475952	34.5093	2.4041	27.5457	27.5372	93.18	0.01	0.47793
1469.286	1487	2.5041	31.475677	34.5094	2.4031	27.5458	27.5373	93.17	0.01	0.47807
1470.271	1488	2.5036	31.475681	34.5094	2.4026	27.5459	27.5373	93.18	0.01	0.47786
1471.255	1489	2.5030	31.475754	34.5096	2.4019	27.5461	27.5376	93.18	0.02	0.47811
1472.240	1490	2.5018	31.475191	34.5097	2.4007	27.5463	27.5377	93.18	0.01	0.47872
1473.225	1491	2.5009	31.474909	34.5098	2.3997	27.5464	27.5379	93.18	0.01	0.48003
1474.209	1492	2.5000	31.474615	34.5099	2.3987	27.5466	27.5380	93.18	0.01	0.48127
1475.194	1493	2.4993	31.474365	34.5099	2.3979	27.5467	27.5381	93.18	0.02	0.48378
1476.178	1494	2.4977	31.473572	34.5101	2.3962	27.5470	27.5384	93.18	0.01	0.48512
1477.163	1495	2.4959	31.472532	34.5102	2.3945	27.5472	27.5386	93.18	0.01	0.48071
1478.148	1496	2.4946	31.471916	34.5103	2.3931	27.5474	27.5388	93.18	0.02	0.48542
1479.132	1497	2.4933	31.471331	34.5105	2.3917	27.5477	27.5391	93.18	0.02	0.48837
1480.117	1498	2.4920	31.470772	34.5107	2.3903	27.5480	27.5394	93.18	0.01	0.48546
1481.101	1499	2.4911	31.470734	34.5111	2.3894	27.5483	27.5397	93.18	0.02	0.48521
1482.086	1500	2.4882	31.469248	34.5119	2.3864	27.5492	27.5406	93.18	0.01	0.48538
1483.070	1501	2.4878	31.469568	34.5122	2.3859	27.5495	27.5409	93.18	0.01	0.49140

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1484.055	1502	2.4848	31.467346	34.5122	2.3828	27.5498	27.5412	93.18	0.01	0.49010
1485.039	1503	2.4808	31.464294	34.5122	2.3788	27.5501	27.5415	93.18	0.01	0.49520
1486.024	1504	2.4797	31.463987	34.5124	2.3777	27.5504	27.5418	93.18	0.02	0.49658
1487.009	1505	2.4786	31.463650	34.5127	2.3765	27.5508	27.5422	93.18	0.02	0.49201
1487.993	1506	2.4738	31.460886	34.5139	2.3717	27.5521	27.5435	93.18	0.01	0.49869
1488.978	1507	2.4690	31.457399	34.5143	2.3668	27.5528	27.5442	93.18	0.01	0.50538
1489.962	1508	2.4633	31.453262	34.5148	2.3611	27.5537	27.5451	93.18	0.01	0.49908
1490.947	1509	2.4619	31.452560	34.5149	2.3597	27.5538	27.5453	93.18	0.01	0.50074
1491.931	1510	2.4613	31.452604	34.5151	2.3590	27.5541	27.5455	93.18	0.01	0.51106
1492.916	1511	2.4611	31.452909	34.5152	2.3588	27.5542	27.5456	93.18	0.01	0.51091
1493.900	1512	2.4602	31.452675	34.5153	2.3578	27.5544	27.5458	93.18	0.01	0.51612
1494.885	1513	2.4584	31.451769	34.5156	2.3559	27.5547	27.5461	93.18	0.01	0.51954
1495.869	1514	2.4574	31.451557	34.5160	2.3548	27.5551	27.5465	93.18	0.01	0.52438
1496.854	1515	2.4570	31.451672	34.5160	2.3544	27.5552	27.5466	93.18	0.01	0.52048
1497.838	1516	2.4561	31.451517	34.5162	2.3534	27.5554	27.5468	93.18	0.01	0.51848
1498.823	1517	2.4525	31.449310	34.5169	2.3497	27.5563	27.5477	93.18	0.01	0.52873
1499.807	1518	2.4506	31.448439	34.5173	2.3478	27.5568	27.5482	93.18	0.02	0.52600
1500.792	1519	2.4505	31.448790	34.5173	2.3476	27.5568	27.5482	93.18	0.01	0.53372
1501.776	1520	2.4503	31.449051	34.5174	2.3473	27.5569	27.5483	93.18	0.01	0.53485
1502.760	1521	2.4500	31.449293	34.5175	2.3470	27.5570	27.5484	93.18	0.02	0.53338
1503.745	1522	2.4491	31.449041	34.5176	2.3460	27.5572	27.5486	93.18	0.01	0.53690
1504.729	1523	2.4486	31.449009	34.5176	2.3454	27.5572	27.5486	93.18	0.01	0.54035
1505.714	1524	2.4485	31.449345	34.5176	2.3453	27.5572	27.5486	93.18	0.02	0.53893
1506.698	1525	2.4481	31.449438	34.5177	2.3448	27.5573	27.5487	93.18	0.01	0.54042
1507.683	1526	2.4468	31.448883	34.5178	2.3435	27.5576	27.5489	93.18	0.01	0.54697
1508.667	1527	2.4435	31.446676	34.5182	2.3401	27.5581	27.5495	93.18	0.01	0.54271
1509.651	1528	2.4416	31.445583	34.5184	2.3381	27.5584	27.5498	93.18	0.01	0.54165
1510.636	1529	2.4395	31.444437	34.5187	2.3360	27.5589	27.5502	93.18	0.01	0.54180
1511.620	1530	2.4389	31.444345	34.5187	2.3353	27.5590	27.5503	93.18	0.01	0.54200
1512.605	1531	2.4384	31.444450	34.5188	2.3347	27.5591	27.5504	93.18	0.01	0.54604
1513.589	1532	2.4381	31.444548	34.5188	2.3344	27.5591	27.5504	93.18	0.02	0.55436
1514.574	1533	2.4379	31.444811	34.5189	2.3340	27.5592	27.5505	93.18	0.01	0.55275
1515.558	1534	2.4373	31.444763	34.5190	2.3333	27.5593	27.5506	93.18	0.02	0.54864
1516.542	1535	2.4347	31.443111	34.5192	2.3307	27.5597	27.5510	93.18	0.01	0.54840
1517.527	1536	2.4324	31.441835	34.5195	2.3284	27.5601	27.5514	93.18	0.01	0.55153
1518.511	1537	2.4290	31.439528	34.5199	2.3249	27.5607	27.5520	93.18	0.01	0.55532
1519.495	1538	2.4277	31.439018	34.5201	2.3236	27.5610	27.5523	93.18	0.01	0.55793
1520.480	1539	2.4272	31.439110	34.5202	2.3230	27.5612	27.5525	93.18	0.01	0.55734
1521.464	1540	2.4251	31.437887	34.5204	2.3209	27.5615	27.5528	93.18	0.01	0.55749
1522.449	1541	2.4242	31.437546	34.5205	2.3199	27.5616	27.5529	93.18	0.01	0.56299
1523.433	1542	2.4237	31.437714	34.5208	2.3193	27.5619	27.5532	93.18	0.01	0.56570
1524.417	1543	2.4232	31.437658	34.5207	2.3187	27.5619	27.5532	93.18	0.01	0.56486
1525.402	1544	2.4208	31.436140	34.5209	2.3163	27.5623	27.5535	93.18	0.01	0.56246
1526.386	1545	2.4201	31.436157	34.5211	2.3155	27.5625	27.5538	93.18	0.02	0.56152

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1527.370	1546	2.4194	31.435949	34.5211	2.3148	27.5626	27.5538	93.18	0.01	0.56832
1528.355	1547	2.4174	31.434881	34.5214	2.3127	27.5630	27.5543	93.18	0.02	0.57118
1529.339	1548	2.4172	31.435076	34.5213	2.3124	27.5630	27.5542	93.18	0.02	0.56849
1530.323	1549	2.4169	31.435194	34.5213	2.3120	27.5630	27.5542	93.18	0.01	0.56791
1531.308	1550	2.4159	31.434635	34.5212	2.3109	27.5630	27.5542	93.18	0.01	0.56802
1532.292	1551	2.4105	31.430578	34.5215	2.3056	27.5636	27.5549	93.18	0.01	0.57290
1533.276	1552	2.4084	31.429317	34.5217	2.3034	27.5640	27.5552	93.18	0.02	0.57926
1534.261	1553	2.4068	31.428436	34.5219	2.3017	27.5643	27.5555	93.18	0.01	0.57966
1535.245	1554	2.4053	31.427780	34.5221	2.3002	27.5646	27.5558	93.18	0.01	0.57602
1536.229	1555	2.4041	31.427198	34.5222	2.2989	27.5647	27.5560	93.18	0.01	0.57481
1537.214	1556	2.4043	31.427721	34.5221	2.2990	27.5647	27.5559	93.18	0.01	0.57487
1538.198	1557	2.4027	31.426851	34.5222	2.2973	27.5649	27.5561	93.18	0.01	0.57501
1539.182	1558	2.4016	31.426394	34.5224	2.2961	27.5651	27.5563	93.18	0.01	0.57567
1540.167	1559	2.4009	31.426401	34.5226	2.2954	27.5654	27.5566	93.18	0.01	0.58319
1541.151	1560	2.4012	31.427094	34.5226	2.2956	27.5654	27.5566	93.18	0.01	0.58215
1542.135	1561	2.4019	31.427898	34.5223	2.2962	27.5651	27.5563	93.18	0.01	0.58346
1543.119	1562	2.4024	31.428635	34.5222	2.2966	27.5650	27.5562	93.18	0.02	0.58405
1544.104	1563	2.4026	31.429241	34.5222	2.2968	27.5650	27.5562	93.18	0.01	0.58162
1545.088	1564	2.4027	31.429741	34.5222	2.2968	27.5650	27.5562	93.18	0.02	0.58172
1546.072	1565	2.4025	31.430185	34.5225	2.2965	27.5652	27.5564	93.18	0.01	0.58281
1547.056	1566	2.4020	31.430010	34.5223	2.2959	27.5651	27.5563	93.18	0.01	0.58221
1548.041	1567	2.4002	31.429054	34.5225	2.2941	27.5654	27.5566	93.18	0.01	0.58172
1549.025	1568	2.4003	31.429621	34.5226	2.2941	27.5655	27.5567	93.18	0.01	0.58413
1550.009	1569	2.4006	31.430676	34.5231	2.2943	27.5658	27.5570	93.18	0.02	0.58013
1550.993	1570	2.3984	31.429186	34.5230	2.2921	27.5660	27.5571	93.18	0.01	0.58378
1551.978	1571	2.3955	31.427021	34.5230	2.2891	27.5662	27.5574	93.18	0.01	0.58369
1552.962	1572	2.3905	31.423929	34.5240	2.2841	27.5674	27.5586	93.18	0.02	0.58291
1553.946	1573	2.3904	31.424372	34.5242	2.2839	27.5676	27.5587	93.18	0.01	0.58418
1554.930	1574	2.3898	31.424313	34.5242	2.2833	27.5677	27.5588	93.18	0.02	0.58526
1555.914	1575	2.3900	31.424744	34.5241	2.2833	27.5676	27.5587	93.18	0.02	0.58604
1556.899	1576	2.3879	31.423691	34.5245	2.2812	27.5681	27.5592	93.18	0.01	0.59012
1557.883	1577	2.3855	31.422384	34.5250	2.2787	27.5687	27.5598	93.18	0.01	0.58964
1558.867	1578	2.3838	31.421553	34.5253	2.2770	27.5690	27.5602	93.18	0.02	0.59296
1559.851	1579	2.3798	31.418411	34.5252	2.2729	27.5693	27.5604	93.18	0.01	0.60167
1560.835	1580	2.3750	31.415411	34.5261	2.2682	27.5704	27.5615	93.18	0.01	0.60245
1561.820	1581	2.3751	31.415819	34.5260	2.2681	27.5704	27.5615	93.18	0.01	0.59820
1562.804	1582	2.3747	31.416096	34.5263	2.2676	27.5706	27.5617	93.18	0.02	0.59621
1563.788	1583	2.3740	31.416010	34.5264	2.2669	27.5708	27.5619	93.18	0.02	0.59824
1564.772	1584	2.3737	31.416256	34.5265	2.2665	27.5709	27.5620	93.16	0.02	0.60615
1565.756	1585	2.3729	31.416077	34.5266	2.2657	27.5710	27.5621	93.18	0.02	0.60877
1566.740	1586	2.3715	31.415545	34.5270	2.2642	27.5714	27.5626	93.18	0.01	0.60584
1567.724	1587	2.3677	31.413115	34.5275	2.2604	27.5722	27.5633	93.18	0.01	0.61541
1568.709	1588	2.3635	31.410330	34.5281	2.2561	27.5730	27.5641	93.18	0.01	0.61173
1569.693	1589	2.3602	31.408245	34.5286	2.2528	27.5737	27.5648	93.18	0.01	0.61161

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1570.677	1590	2.3572	31.406267	34.5288	2.2497	27.5741	27.5652	93.18	0.01	0.61849
1571.661	1591	2.3558	31.405605	34.5290	2.2482	27.5744	27.5655	93.18	0.02	0.62179
1572.645	1592	2.3543	31.404892	34.5292	2.2467	27.5747	27.5658	93.18	0.02	0.61827
1573.629	1593	2.3528	31.404068	34.5293	2.2452	27.5748	27.5659	93.18	0.02	0.62267
1574.614	1594	2.3518	31.403719	34.5294	2.2441	27.5751	27.5662	93.18	0.02	0.62902
1575.598	1595	2.3517	31.404020	34.5295	2.2439	27.5751	27.5662	93.18	0.01	0.63011
1576.582	1596	2.3519	31.404654	34.5295	2.2440	27.5751	27.5662	93.18	0.01	0.63567
1577.566	1597	2.3515	31.404749	34.5295	2.2435	27.5752	27.5663	93.18	0.01	0.63197
1578.550	1598	2.3504	31.404367	34.5298	2.2423	27.5755	27.5665	93.18	0.02	0.64016
1579.534	1599	2.3493	31.403957	34.5299	2.2412	27.5757	27.5667	93.18	0.02	0.63636
1580.518	1600	2.3493	31.404383	34.5299	2.2411	27.5757	27.5668	93.18	0.01	0.63732
1581.502	1601	2.3491	31.404552	34.5298	2.2408	27.5757	27.5667	93.18	0.01	0.64560
1582.486	1602	2.3489	31.404928	34.5300	2.2406	27.5758	27.5668	93.18	0.02	0.64146
1583.470	1603	2.3472	31.404015	34.5301	2.2389	27.5760	27.5671	93.17	0.01	0.63780
1584.454	1604	2.3438	31.401642	34.5304	2.2354	27.5765	27.5676	93.17	0.01	0.64380
1585.439	1605	2.3397	31.398840	34.5309	2.2312	27.5773	27.5683	93.18	0.02	0.64434
1586.423	1606	2.3357	31.396244	34.5314	2.2272	27.5781	27.5691	93.18	0.01	0.64177
1587.407	1607	2.3344	31.395590	34.5315	2.2258	27.5782	27.5693	93.18	0.02	0.64174
1588.391	1608	2.3341	31.395803	34.5315	2.2255	27.5782	27.5693	93.18	0.02	0.64609
1589.375	1609	2.3340	31.396063	34.5315	2.2253	27.5783	27.5693	93.18	0.02	0.65214
1590.359	1610	2.3335	31.396112	34.5315	2.2247	27.5783	27.5694	93.18	0.02	0.65279
1591.343	1611	2.3323	31.395571	34.5317	2.2235	27.5786	27.5696	93.18	0.01	0.64971
1592.327	1612	2.3304	31.394438	34.5318	2.2215	27.5788	27.5699	93.18	0.02	0.65335
1593.311	1613	2.3288	31.393566	34.5319	2.2198	27.5791	27.5701	93.18	0.02	0.66039
1594.295	1614	2.3284	31.393618	34.5320	2.2193	27.5791	27.5701	93.18	0.01	0.65817
1595.279	1615	2.3267	31.392750	34.5322	2.2176	27.5794	27.5704	93.18	0.02	0.65524
1596.263	1616	2.3246	31.391682	34.5326	2.2155	27.5799	27.5710	93.18	0.01	0.65500
1597.247	1617	2.3231	31.390921	34.5328	2.2139	27.5802	27.5712	93.18	0.02	0.65523
1598.231	1618	2.3226	31.390898	34.5328	2.2133	27.5803	27.5713	93.18	0.01	0.65817
1599.215	1619	2.3223	31.391190	34.5329	2.2130	27.5804	27.5714	93.18	0.02	0.66364
1600.199	1620	2.3219	31.391125	34.5328	2.2125	27.5803	27.5713	93.18	0.02	0.66567
1601.183	1621	2.3203	31.390511	34.5333	2.2108	27.5809	27.5719	93.18	0.02	0.66495
1602.167	1622	2.3203	31.390867	34.5332	2.2107	27.5808	27.5718	93.18	0.02	0.66366
1603.151	1623	2.3202	31.391094	34.5330	2.2106	27.5807	27.5717	93.18	0.02	0.66531
1604.135	1624	2.3184	31.390156	34.5333	2.2087	27.5811	27.5720	93.18	0.02	0.67135
1605.119	1625	2.3159	31.388607	34.5336	2.2061	27.5815	27.5725	93.18	0.01	0.66965
1606.103	1626	2.3122	31.386250	34.5341	2.2024	27.5822	27.5732	93.17	0.02	0.67052
1607.087	1627	2.3109	31.385500	34.5341	2.2010	27.5823	27.5733	93.18	0.02	0.66872
1608.071	1628	2.3103	31.385542	34.5342	2.2004	27.5825	27.5735	93.18	0.02	0.66883
1609.055	1629	2.3101	31.385813	34.5343	2.2001	27.5826	27.5735	93.18	0.02	0.67529
1610.039	1630	2.3088	31.385256	34.5345	2.1987	27.5829	27.5738	93.18	0.01	0.67711
1611.023	1631	2.3076	31.384817	34.5347	2.1975	27.5831	27.5741	93.18	0.02	0.67905
1612.007	1632	2.3072	31.384983	34.5349	2.1970	27.5833	27.5742	93.18	0.01	0.67794
1612.991	1633	2.3069	31.385248	34.5350	2.1966	27.5834	27.5743	93.18	0.02	0.67558

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1613.975	1634	2.3063	31.385012	34.5348	2.1960	27.5833	27.5743	93.18	0.02	0.67570
1614.959	1635	2.3041	31.383684	34.5351	2.1937	27.5837	27.5746	93.18	0.01	0.68112
1615.943	1636	2.3009	31.381762	34.5356	2.1904	27.5844	27.5754	93.18	0.01	0.68596
1616.926	1637	2.3005	31.381731	34.5355	2.1900	27.5843	27.5753	93.18	0.01	0.68260
1617.910	1638	2.2998	31.381636	34.5357	2.1892	27.5845	27.5755	93.18	0.02	0.68245
1618.894	1639	2.2990	31.381699	34.5360	2.1883	27.5849	27.5758	93.18	0.01	0.68257
1619.878	1640	2.2985	31.381615	34.5360	2.1878	27.5849	27.5758	93.16	0.02	0.68346
1620.862	1641	2.2972	31.380894	34.5360	2.1864	27.5850	27.5759	93.18	0.02	0.68723
1621.846	1642	2.2908	31.376684	34.5372	2.1799	27.5865	27.5774	93.18	0.01	0.69364
1622.830	1643	2.2893	31.375959	34.5374	2.1784	27.5868	27.5777	93.18	0.02	0.69405
1623.814	1644	2.2865	31.374260	34.5378	2.1755	27.5874	27.5783	93.18	0.02	0.69026
1624.798	1645	2.2837	31.372578	34.5382	2.1727	27.5879	27.5788	93.18	0.02	0.69013
1625.782	1646	2.2814	31.371412	34.5387	2.1704	27.5885	27.5794	93.18	0.01	0.69460
1626.765	1647	2.2805	31.371164	34.5389	2.1694	27.5887	27.5797	93.18	0.02	0.70193
1627.749	1648	2.2795	31.370670	34.5388	2.1683	27.5887	27.5796	93.18	0.02	0.70779
1628.733	1649	2.2774	31.369432	34.5390	2.1662	27.5891	27.5800	93.18	0.01	0.70849
1629.717	1650	2.2745	31.367653	34.5394	2.1632	27.5897	27.5806	93.17	0.02	0.70414
1630.701	1651	2.2713	31.365732	34.5400	2.1600	27.5904	27.5813	93.18	0.02	0.71163
1631.685	1652	2.2693	31.364599	34.5403	2.1579	27.5908	27.5817	93.18	0.02	0.71744
1632.669	1653	2.2682	31.364147	34.5404	2.1567	27.5910	27.5819	93.18	0.02	0.71493
1633.652	1654	2.2676	31.364113	34.5404	2.1561	27.5910	27.5819	93.18	0.01	0.71106
1634.636	1655	2.2672	31.364222	34.5405	2.1556	27.5912	27.5820	93.18	0.02	0.71676
1635.620	1656	2.2665	31.364155	34.5407	2.1548	27.5913	27.5822	93.18	0.02	0.72157
1636.604	1657	2.2637	31.362503	34.5411	2.1520	27.5919	27.5828	93.18	0.02	0.71873
1637.588	1658	2.2624	31.361807	34.5411	2.1507	27.5920	27.5829	93.18	0.02	0.72650
1638.572	1659	2.2620	31.361944	34.5413	2.1501	27.5922	27.5831	93.18	0.01	0.72814
1639.555	1660	2.2599	31.360788	34.5416	2.1480	27.5926	27.5835	93.18	0.02	0.72835
1640.539	1661	2.2568	31.358957	34.5421	2.1448	27.5933	27.5842	93.18	0.01	0.73307
1641.523	1662	2.2563	31.358950	34.5422	2.1443	27.5934	27.5843	93.18	0.02	0.73192
1642.507	1663	2.2562	31.359392	34.5423	2.1441	27.5935	27.5844	93.18	0.02	0.73172
1643.491	1664	2.2563	31.359762	34.5421	2.1441	27.5934	27.5842	93.18	0.02	0.72983
1644.474	1665	2.2562	31.360182	34.5422	2.1440	27.5934	27.5843	93.18	0.02	0.73062
1645.458	1666	2.2539	31.358818	34.5425	2.1416	27.5939	27.5847	93.18	0.02	0.73983
1646.442	1667	2.2482	31.355000	34.5434	2.1359	27.5950	27.5859	93.18	0.02	0.74005
1647.426	1668	2.2462	31.353800	34.5436	2.1338	27.5954	27.5863	93.18	0.01	0.73691
1648.410	1669	2.2455	31.353718	34.5437	2.1331	27.5955	27.5864	93.18	0.02	0.74676
1649.393	1670	2.2455	31.354137	34.5438	2.1329	27.5956	27.5864	93.18	0.02	0.74948
1650.377	1671	2.2446	31.353884	34.5438	2.1320	27.5957	27.5866	93.18	0.02	0.74457
1651.361	1672	2.2423	31.352453	34.5441	2.1296	27.5961	27.5870	93.18	0.02	0.74453
1652.345	1673	2.2408	31.351952	34.5445	2.1281	27.5966	27.5874	93.18	0.02	0.74962
1653.328	1674	2.2406	31.352097	34.5444	2.1278	27.5965	27.5873	93.18	0.02	0.75433
1654.312	1675	2.2405	31.352436	34.5444	2.1277	27.5965	27.5874	93.18	0.02	0.75456
1655.296	1676	2.2403	31.352722	34.5445	2.1274	27.5966	27.5874	93.18	0.02	0.75706
1656.280	1677	2.2405	31.353231	34.5444	2.1275	27.5966	27.5874	93.18	0.02	0.76042

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1657.263	1678	2.2400	31.353176	34.5444	2.1269	27.5966	27.5874	93.18	0.02	0.75585
1658.247	1679	2.2394	31.353271	34.5446	2.1263	27.5968	27.5876	93.18	0.02	0.75753
1659.231	1680	2.2383	31.352711	34.5447	2.1250	27.5969	27.5877	93.18	0.01	0.76419
1660.215	1681	2.2347	31.350468	34.5452	2.1215	27.5976	27.5884	93.18	0.02	0.76911
1661.198	1682	2.2339	31.350183	34.5453	2.1205	27.5978	27.5886	93.18	0.02	0.76548
1662.182	1683	2.2328	31.349770	34.5454	2.1194	27.5980	27.5888	93.18	0.02	0.76333
1663.166	1684	2.2306	31.348408	34.5456	2.1171	27.5983	27.5891	93.18	0.02	0.76324
1664.150	1685	2.2273	31.346279	34.5459	2.1138	27.5989	27.5897	93.18	0.02	0.76334
1665.133	1686	2.2235	31.343781	34.5465	2.1100	27.5996	27.5904	93.18	0.01	0.76355
1666.117	1687	2.2253	31.345617	34.5462	2.1117	27.5993	27.5901	93.18	0.02	0.76636
1667.101	1688	2.2240	31.344734	34.5461	2.1103	27.5993	27.5901	93.18	0.02	0.77206
1668.084	1689	2.2233	31.344824	34.5464	2.1095	27.5996	27.5904	93.18	0.02	0.77587
1669.068	1690	2.2221	31.344229	34.5464	2.1083	27.5997	27.5905	93.18	0.02	0.77388
1670.052	1691	2.2201	31.343149	34.5468	2.1062	27.6002	27.5909	93.18	0.02	0.78367
1671.035	1692	2.2187	31.342569	34.5471	2.1047	27.6005	27.5913	93.18	0.02	0.78061
1672.019	1693	2.2159	31.340736	34.5474	2.1018	27.6010	27.5917	93.18	0.02	0.77696
1673.003	1694	2.2154	31.340879	34.5475	2.1013	27.6011	27.5919	93.18	0.02	0.78339
1673.986	1695	2.2154	31.341280	34.5475	2.1013	27.6011	27.5919	93.18	0.02	0.79028
1674.970	1696	2.2153	31.341549	34.5474	2.1011	27.6011	27.5918	93.18	0.02	0.78593
1675.954	1697	2.2148	31.341713	34.5476	2.1005	27.6013	27.5920	93.18	0.02	0.78375
1676.937	1698	2.2148	31.342024	34.5475	2.1004	27.6012	27.5920	93.18	0.01	0.78977
1677.921	1699	2.2141	31.342123	34.5479	2.0996	27.6016	27.5923	93.18	0.02	0.79802
1678.905	1700	2.2128	31.341410	34.5479	2.0983	27.6017	27.5924	93.18	0.02	0.79643
1679.888	1701	2.2115	31.340788	34.5481	2.0969	27.6019	27.5927	93.18	0.02	0.79105
1680.872	1702	2.2102	31.340364	34.5484	2.0956	27.6023	27.5930	93.18	0.01	0.79060
1681.855	1703	2.2081	31.339325	34.5488	2.0934	27.6028	27.5935	93.18	0.02	0.79244
1682.839	1704	2.2069	31.338642	34.5488	2.0921	27.6029	27.5936	93.18	0.02	0.79942
1683.823	1705	2.2045	31.337248	34.5492	2.0896	27.6034	27.5941	93.18	0.01	0.80221
1684.806	1706	2.2037	31.337257	34.5495	2.0888	27.6037	27.5944	93.18	0.02	0.80123
1685.790	1707	2.2037	31.337723	34.5496	2.0887	27.6038	27.5945	93.18	0.01	0.79918
1686.773	1708	2.2037	31.337894	34.5493	2.0886	27.6036	27.5943	93.18	0.02	0.80054
1687.757	1709	2.2020	31.336950	34.5495	2.0869	27.6038	27.5945	93.18	0.02	0.80054
1688.741	1710	2.2001	31.336065	34.5499	2.0850	27.6043	27.5950	93.18	0.01	0.80229
1689.724	1711	2.1985	31.335279	34.5501	2.0833	27.6046	27.5953	93.18	0.02	0.80904
1690.708	1712	2.1975	31.334848	34.5502	2.0822	27.6048	27.5955	93.18	0.02	0.80525
1691.691	1713	2.1961	31.334143	34.5503	2.0808	27.6050	27.5957	93.18	0.01	0.80492
1692.675	1714	2.1924	31.331875	34.5510	2.0770	27.6058	27.5965	93.18	0.01	0.81077
1693.659	1715	2.1916	31.331509	34.5509	2.0761	27.6059	27.5965	93.18	0.01	0.81720
1694.642	1716	2.1906	31.331209	34.5511	2.0750	27.6061	27.5968	93.18	0.02	0.81716
1695.626	1717	2.1902	31.331375	34.5512	2.0746	27.6062	27.5969	93.18	0.01	0.81280
1696.609	1718	2.1897	31.331450	34.5513	2.0740	27.6063	27.5970	93.19	0.02	0.81204
1697.593	1719	2.1888	31.331083	34.5513	2.0730	27.6064	27.5971	93.18	0.02	0.81615
1698.576	1720	2.1875	31.330538	34.5515	2.0717	27.6067	27.5974	93.18	0.02	0.82504
1699.560	1721	2.1868	31.330393	34.5516	2.0709	27.6069	27.5975	93.18	0.02	0.82384

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1700.543	1722	2.1863	31.330418	34.5517	2.0703	27.6070	27.5976	93.18	0.02	0.81962
1701.527	1723	2.1859	31.330671	34.5519	2.0699	27.6071	27.5978	93.19	0.02	0.82454
1702.510	1724	2.1861	31.331125	34.5517	2.0700	27.6070	27.5977	93.19	0.02	0.82788
1703.494	1725	2.1860	31.331549	34.5519	2.0698	27.6072	27.5978	93.18	0.02	0.83051
1704.477	1726	2.1861	31.332031	34.5519	2.0698	27.6072	27.5978	93.18	0.02	0.82663
1705.461	1727	2.1854	31.331881	34.5519	2.0690	27.6072	27.5979	93.19	0.02	0.82578
1706.444	1728	2.1848	31.331837	34.5520	2.0684	27.6073	27.5980	93.18	0.02	0.82603
1707.428	1729	2.1839	31.331497	34.5520	2.0674	27.6075	27.5981	93.17	0.02	0.82912
1708.411	1730	2.1834	31.331553	34.5521	2.0669	27.6076	27.5982	93.18	0.02	0.83224
1709.395	1731	2.1832	31.331774	34.5521	2.0665	27.6076	27.5982	93.18	0.02	0.83241
1710.378	1732	2.1829	31.332075	34.5523	2.0661	27.6078	27.5984	93.18	0.02	0.83647
1711.362	1733	2.1828	31.332422	34.5523	2.0660	27.6078	27.5984	93.18	0.02	0.83558
1712.345	1734	2.1826	31.332626	34.5523	2.0657	27.6078	27.5984	93.18	0.02	0.83353
1713.329	1735	2.1816	31.332350	34.5525	2.0646	27.6081	27.5987	93.18	0.02	0.83322
1714.312	1736	2.1813	31.332478	34.5525	2.0643	27.6081	27.5987	93.19	0.02	0.83336
1715.296	1737	2.1811	31.332773	34.5526	2.0640	27.6082	27.5987	93.19	0.02	0.83349
1716.279	1738	2.1814	31.333420	34.5525	2.0642	27.6081	27.5987	93.19	0.02	0.83371
1717.263	1739	2.1813	31.333778	34.5527	2.0640	27.6082	27.5988	93.19	0.02	0.83635
1718.246	1740	2.1810	31.334099	34.5528	2.0636	27.6084	27.5989	93.18	0.02	0.84265
1719.230	1741	2.1805	31.334229	34.5530	2.0631	27.6085	27.5991	93.18	0.02	0.84005
1720.213	1742	2.1795	31.333765	34.5531	2.0620	27.6087	27.5993	93.16	0.02	0.83800
1721.197	1743	2.1786	31.333698	34.5533	2.0611	27.6090	27.5996	93.18	0.02	0.83777
1722.180	1744	2.1784	31.333805	34.5532	2.0608	27.6089	27.5995	93.18	0.02	0.83794
1723.163	1745	2.1783	31.334002	34.5531	2.0606	27.6088	27.5994	93.18	0.02	0.83842
1724.147	1746	2.1783	31.334463	34.5531	2.0605	27.6089	27.5994	93.19	0.01	0.84232
1725.130	1747	2.1734	31.331106	34.5537	2.0556	27.6097	27.6003	93.18	0.01	0.84192
1726.114	1748	2.1720	31.330563	34.5541	2.0541	27.6102	27.6007	93.18	0.01	0.84172
1727.097	1749	2.1694	31.328823	34.5542	2.0515	27.6105	27.6010	93.18	0.02	0.84192
1728.081	1750	2.1660	31.326954	34.5550	2.0480	27.6114	27.6019	93.18	0.02	0.84215
1729.064	1751	2.1647	31.326389	34.5552	2.0467	27.6117	27.6022	93.18	0.02	0.84231
1730.047	1752	2.1630	31.325321	34.5552	2.0449	27.6118	27.6023	93.18	0.02	0.84249
1731.031	1753	2.1620	31.324831	34.5552	2.0438	27.6119	27.6024	93.18	0.02	0.84276
1732.014	1754	2.1594	31.323387	34.5557	2.0412	27.6125	27.6030	93.19	0.01	0.84878
1732.997	1755	2.1584	31.323139	34.5560	2.0401	27.6128	27.6033	93.19	0.01	0.85682
1733.981	1756	2.1583	31.323456	34.5560	2.0399	27.6128	27.6033	93.19	0.02	0.85308
1734.964	1757	2.1580	31.323618	34.5560	2.0396	27.6128	27.6033	93.19	0.02	0.86237
1735.948	1758	2.1577	31.323708	34.5559	2.0392	27.6128	27.6033	93.19	0.02	0.86261
1736.931	1759	2.1563	31.323120	34.5562	2.0377	27.6132	27.6036	93.18	0.02	0.86267
1737.914	1760	2.1546	31.322203	34.5564	2.0359	27.6135	27.6040	93.19	0.02	0.86699
1738.898	1761	2.1515	31.320282	34.5569	2.0328	27.6141	27.6046	93.19	0.01	0.86684
1739.881	1762	2.1491	31.318951	34.5572	2.0304	27.6146	27.6051	93.18	0.01	0.86411
1740.864	1763	2.1475	31.318110	34.5574	2.0287	27.6148	27.6053	93.19	0.02	0.86944
1741.848	1764	2.1450	31.316538	34.5576	2.0262	27.6152	27.6057	93.19	0.01	0.87548
1742.831	1765	2.1421	31.314779	34.5581	2.0232	27.6158	27.6063	93.19	0.02	0.87452

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1743.814	1766	2.1403	31.313828	34.5583	2.0214	27.6162	27.6067	93.19	0.01	0.87133
1744.798	1767	2.1389	31.313204	34.5586	2.0199	27.6165	27.6070	93.19	0.01	0.87425
1745.781	1768	2.1379	31.312834	34.5587	2.0188	27.6167	27.6072	93.19	0.02	0.88410
1746.764	1769	2.1370	31.312597	34.5589	2.0179	27.6169	27.6073	93.19	0.02	0.88028
1747.748	1770	2.1349	31.311354	34.5591	2.0157	27.6172	27.6077	93.19	0.02	0.88590
1748.731	1771	2.1327	31.310266	34.5596	2.0135	27.6178	27.6082	93.18	0.02	0.89183
1749.714	1772	2.1324	31.310455	34.5596	2.0131	27.6179	27.6083	93.19	0.01	0.88669
1750.698	1773	2.1313	31.309980	34.5597	2.0120	27.6180	27.6084	93.19	0.02	0.89165
1751.681	1774	2.1285	31.308374	34.5602	2.0091	27.6187	27.6091	93.19	0.02	0.89810
1752.664	1775	2.1263	31.307238	34.5607	2.0068	27.6192	27.6096	93.20	0.02	0.89436
1753.648	1776	2.1240	31.306000	34.5611	2.0045	27.6197	27.6102	93.19	0.01	0.90165
1754.631	1777	2.1205	31.303783	34.5617	2.0009	27.6204	27.6109	93.19	0.02	0.90199
1755.614	1778	2.1189	31.303022	34.5620	1.9992	27.6208	27.6113	93.19	0.02	0.90321
1756.597	1779	2.1176	31.302473	34.5622	1.9979	27.6211	27.6116	93.19	0.02	0.91296
1757.581	1780	2.1170	31.302540	34.5623	1.9972	27.6213	27.6117	93.18	0.02	0.90904
1758.564	1781	2.1161	31.302071	34.5622	1.9962	27.6213	27.6117	93.19	0.01	0.91070
1759.547	1782	2.1159	31.302460	34.5624	1.9960	27.6214	27.6119	93.18	0.02	0.91836
1760.530	1783	2.1156	31.302801	34.5626	1.9956	27.6216	27.6121	93.19	0.02	0.91961
1761.514	1784	2.1145	31.302355	34.5628	1.9944	27.6219	27.6123	93.19	0.02	0.92200
1762.497	1785	2.1133	31.301830	34.5629	1.9932	27.6220	27.6125	93.19	0.01	0.92438
1763.480	1786	2.1129	31.301968	34.5631	1.9926	27.6222	27.6127	93.19	0.02	0.93112
1764.463	1787	2.1127	31.302238	34.5630	1.9925	27.6222	27.6126	93.19	0.02	0.93047
1765.447	1788	2.1126	31.302593	34.5631	1.9922	27.6223	27.6127	93.18	0.02	0.92517
1766.430	1789	2.1118	31.302372	34.5632	1.9914	27.6224	27.6128	93.19	0.02	0.92458
1767.413	1790	2.1111	31.302303	34.5634	1.9906	27.6226	27.6130	93.18	0.02	0.93104
1768.396	1791	2.1076	31.300154	34.5639	1.9871	27.6233	27.6138	93.19	0.02	0.93566
1769.380	1792	2.1052	31.298708	34.5642	1.9846	27.6238	27.6142	93.18	0.02	0.93524
1770.363	1793	2.1020	31.296724	34.5647	1.9814	27.6244	27.6149	93.19	0.02	0.93240
1771.346	1794	2.0985	31.294575	34.5653	1.9779	27.6251	27.6156	93.19	0.02	0.93229
1772.329	1795	2.0963	31.293304	34.5656	1.9756	27.6256	27.6160	93.18	0.02	0.93840
1773.312	1796	2.0956	31.293209	34.5657	1.9749	27.6257	27.6161	93.18	0.02	0.94576
1774.296	1797	2.0940	31.292339	34.5659	1.9731	27.6260	27.6164	93.18	0.02	0.94195
1775.279	1798	2.0922	31.291443	34.5662	1.9713	27.6264	27.6168	93.18	0.02	0.95265
1776.262	1799	2.0915	31.291388	34.5663	1.9705	27.6266	27.6170	93.18	0.02	0.95189
1777.245	1800	2.0908	31.291233	34.5664	1.9697	27.6267	27.6171	93.19	0.02	0.95717
1778.228	1801	2.0893	31.290382	34.5665	1.9681	27.6269	27.6173	93.18	0.02	0.96076
1779.211	1802	2.0848	31.287422	34.5672	1.9636	27.6278	27.6182	93.18	0.02	0.95597
1780.195	1803	2.0827	31.286419	34.5676	1.9615	27.6283	27.6187	93.18	0.02	0.95791
1781.178	1804	2.0829	31.286877	34.5675	1.9616	27.6282	27.6186	93.18	0.02	0.96723
1782.161	1805	2.0830	31.287371	34.5675	1.9616	27.6282	27.6186	93.18	0.02	0.96470
1783.144	1806	2.0830	31.287828	34.5676	1.9616	27.6283	27.6187	93.18	0.01	0.96169
1784.127	1807	2.0831	31.288343	34.5676	1.9616	27.6283	27.6187	93.18	0.02	0.97294
1785.110	1808	2.0831	31.288681	34.5676	1.9615	27.6283	27.6186	93.18	0.02	0.97395
1786.094	1809	2.0823	31.288548	34.5677	1.9606	27.6285	27.6189	93.18	0.02	0.97950

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1787.077	1810	2.0806	31.287693	34.5680	1.9588	27.6288	27.6192	93.19	0.02	0.97604
1788.060	1811	2.0782	31.286255	34.5683	1.9564	27.6292	27.6196	93.18	0.02	0.97702
1789.043	1812	2.0711	31.281391	34.5693	1.9494	27.6306	27.6210	93.18	0.02	0.98333
1790.026	1813	2.0697	31.280699	34.5695	1.9479	27.6309	27.6213	93.18	0.02	0.98433
1791.009	1814	2.0696	31.281031	34.5696	1.9477	27.6310	27.6213	93.18	0.02	0.98325
1791.992	1815	2.0697	31.281500	34.5695	1.9477	27.6309	27.6212	93.18	0.02	0.98102
1792.975	1816	2.0688	31.281248	34.5697	1.9467	27.6311	27.6215	93.18	0.02	0.98085
1793.958	1817	2.0681	31.281128	34.5697	1.9460	27.6312	27.6216	93.18	0.02	0.98564
1794.942	1818	2.0674	31.280993	34.5698	1.9452	27.6314	27.6217	93.18	0.02	0.99544
1795.925	1819	2.0672	31.281363	34.5700	1.9450	27.6315	27.6218	93.18	0.02	0.99443
1796.908	1820	2.0671	31.281725	34.5700	1.9448	27.6316	27.6219	93.18	0.02	1.00137
1797.891	1821	2.0669	31.282007	34.5701	1.9445	27.6317	27.6220	93.18	0.02	0.99819
1798.874	1822	2.0660	31.281820	34.5704	1.9435	27.6319	27.6222	93.18	0.02	0.99486
1799.857	1823	2.0657	31.281925	34.5703	1.9431	27.6319	27.6223	93.18	0.02	0.99480
1800.840	1824	2.0650	31.281784	34.5703	1.9424	27.6320	27.6223	93.18	0.02	0.99614
1801.823	1825	2.0639	31.281481	34.5707	1.9412	27.6324	27.6227	93.18	0.02	1.00102
1802.806	1826	2.0638	31.281860	34.5707	1.9410	27.6324	27.6227	93.18	0.02	1.00362
1803.789	1827	2.0630	31.281803	34.5710	1.9401	27.6327	27.6230	93.17	0.02	1.01471
1804.772	1828	2.0618	31.281313	34.5712	1.9388	27.6330	27.6233	93.16	0.02	1.01127
1805.755	1829	2.0605	31.280588	34.5712	1.9375	27.6331	27.6234	93.14	0.02	1.01241
1806.738	1830	2.0589	31.279898	34.5716	1.9358	27.6336	27.6238	93.14	0.02	1.00951
1807.721	1831	2.0588	31.280243	34.5716	1.9357	27.6335	27.6238	93.14	0.02	1.00906
1808.704	1832	2.0587	31.280443	34.5715	1.9355	27.6334	27.6237	93.14	0.02	1.00922
1809.688	1833	2.0570	31.279608	34.5718	1.9337	27.6338	27.6241	93.15	0.02	1.01708
1810.671	1834	2.0558	31.279171	34.5720	1.9325	27.6341	27.6244	93.16	0.02	1.02232
1811.654	1835	2.0531	31.277418	34.5723	1.9297	27.6346	27.6248	93.18	0.02	1.01821
1812.637	1836	2.0517	31.276907	34.5725	1.9283	27.6349	27.6251	93.16	0.02	1.01649
1813.620	1837	2.0516	31.277260	34.5726	1.9281	27.6349	27.6252	93.15	0.02	1.01944
1814.603	1838	2.0501	31.276531	34.5728	1.9265	27.6353	27.6255	93.14	0.02	1.02504
1815.586	1839	2.0477	31.275148	34.5732	1.9241	27.6357	27.6260	93.14	0.02	1.02937
1816.569	1840	2.0451	31.273582	34.5736	1.9214	27.6362	27.6265	93.13	0.02	1.02797
1817.552	1841	2.0435	31.272888	34.5739	1.9198	27.6366	27.6269	93.13	0.02	1.02901
1818.535	1842	2.0436	31.273380	34.5739	1.9198	27.6366	27.6269	93.13	0.02	1.03155
1819.518	1843	2.0440	31.274105	34.5739	1.9201	27.6366	27.6268	93.13	0.02	1.03358
1820.500	1844	2.0443	31.274714	34.5739	1.9202	27.6366	27.6268	93.13	0.02	1.03461
1821.484	1845	2.0441	31.275021	34.5739	1.9200	27.6366	27.6269	93.14	0.02	1.04163
1822.466	1846	2.0436	31.274988	34.5739	1.9194	27.6367	27.6269	93.13	0.02	1.04461
1823.449	1847	2.0438	31.275602	34.5739	1.9196	27.6367	27.6269	93.14	0.02	1.03911
1824.432	1848	2.0427	31.275190	34.5741	1.9184	27.6369	27.6271	93.14	0.02	1.04279
1825.415	1849	2.0404	31.273954	34.5745	1.9161	27.6374	27.6276	93.13	0.02	1.04990
1826.398	1850	2.0376	31.272104	34.5748	1.9132	27.6378	27.6280	93.12	0.02	1.04810
1827.381	1851	2.0360	31.271297	34.5750	1.9115	27.6381	27.6283	93.14	0.02	1.04615
1828.364	1852	2.0342	31.270510	34.5754	1.9097	27.6386	27.6288	93.13	0.02	1.04570
1829.347	1853	2.0323	31.269434	34.5756	1.9077	27.6389	27.6292	93.14	0.02	1.04572

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1830.330	1854	2.0302	31.268435	34.5761	1.9056	27.6395	27.6297	93.12	0.02	1.04595
1831.313	1855	2.0260	31.265686	34.5768	1.9014	27.6403	27.6306	93.12	0.03	1.05291
1832.296	1856	2.0249	31.265198	34.5769	1.9002	27.6405	27.6307	93.13	0.02	1.05889
1833.279	1857	2.0231	31.264336	34.5772	1.8983	27.6410	27.6312	93.12	0.02	1.05709
1834.262	1858	2.0199	31.262564	34.5780	1.8951	27.6418	27.6320	93.10	0.03	1.06744
1835.245	1859	2.0155	31.259928	34.5789	1.8906	27.6429	27.6331	93.08	0.03	1.06594
1836.228	1860	2.0092	31.255539	34.5797	1.8844	27.6441	27.6343	93.03	0.04	1.07108
1837.210	1861	2.0071	31.254416	34.5801	1.8822	27.6445	27.6347	92.98	0.04	1.07499
1838.193	1862	2.0060	31.254177	34.5805	1.8810	27.6450	27.6352	92.97	0.05	1.07378
1839.176	1863	2.0057	31.254366	34.5806	1.8806	27.6450	27.6352	92.93	0.05	1.08221
1840.159	1864	2.0046	31.254082	34.5809	1.8795	27.6453	27.6355	92.92	0.05	1.08633
1841.142	1865	2.0024	31.253405	34.5819	1.8773	27.6463	27.6365	92.83	0.07	1.09459
1842.125	1866	2.0027	31.254520	34.5824	1.8775	27.6468	27.6370	92.66	0.09	1.10039
1843.108	1867	2.0029	31.255152	34.5825	1.8775	27.6468	27.6370	92.58	0.11	1.10483
1844.091	1868	2.0030	31.255707	34.5826	1.8776	27.6469	27.6371	92.56	0.12	1.10995
1845.073	1869	2.0033	31.256578	34.5828	1.8778	27.6470	27.6372	92.49	0.12	1.11157
1846.056	1870	2.0034	31.256987	34.5828	1.8778	27.6470	27.6372	92.50	0.13	1.12288
1847.039	1871	2.0042	31.258448	34.5832	1.8786	27.6472	27.6374	92.44	0.13	1.12529
1848.022	1872	2.0074	31.263147	34.5850	1.8816	27.6485	27.6387	92.16	0.17	1.12761
1849.005	1873	2.0103	31.267052	34.5863	1.8843	27.6493	27.6395	91.70	0.26	1.12936
1849.988	1874	2.0098	31.267691	34.5871	1.8838	27.6500	27.6401	91.31	0.30	1.13456
1850.971	1875	2.0086	31.267229	34.5873	1.8825	27.6503	27.6404	91.27	0.29	1.13303
1851.953	1876	2.0084	31.267859	34.5878	1.8823	27.6507	27.6408	91.28	0.29	1.13460
1852.936	1877	2.0101	31.271173	34.5895	1.8838	27.6520	27.6421	91.08	0.33	1.14875
1853.919	1878	2.0102	31.271721	34.5896	1.8839	27.6520	27.6421	90.64	0.38	1.15750
1854.902	1879	2.0110	31.273005	34.5899	1.8845	27.6522	27.6423	90.56	0.40	1.16287
1855.885	1880	2.0110	31.273279	34.5897	1.8844	27.6521	27.6422	90.51	0.40	1.16475
1856.868	1881	2.0105	31.273331	34.5898	1.8839	27.6522	27.6423	90.52	0.39	1.17096
1857.850	1882	2.0102	31.273584	34.5899	1.8835	27.6523	27.6423	90.61	0.39	1.17577
1858.833	1883	2.0110	31.274553	34.5898	1.8842	27.6521	27.6422	90.59	0.40	1.17970
1859.816	1884	2.0107	31.274813	34.5899	1.8838	27.6523	27.6423	90.56	0.40	1.18555
1860.799	1885	2.0106	31.275305	34.5901	1.8837	27.6524	27.6424	90.52	0.40	1.18573
1861.781	1886	2.0108	31.276049	34.5904	1.8837	27.6526	27.6427	90.57	0.41	1.18955
1862.764	1887	2.0111	31.276642	34.5902	1.8840	27.6525	27.6425	90.52	0.42	1.19442
1863.747	1888	2.0119	31.277853	34.5903	1.8847	27.6525	27.6425	90.44	0.42	1.19291
1864.730	1889	2.0089	31.275600	34.5903	1.8816	27.6528	27.6428	90.41	0.42	1.19336
1865.713	1890	2.0085	31.275507	34.5902	1.8812	27.6527	27.6427	90.57	0.40	1.19896
1866.695	1891	2.0083	31.275846	34.5903	1.8809	27.6528	27.6428	90.67	0.38	1.19777
1867.678	1892	2.0090	31.276913	34.5903	1.8815	27.6528	27.6428	90.66	0.39	1.19615
1868.661	1893	2.0095	31.277775	34.5903	1.8820	27.6527	27.6427	90.62	0.40	1.20254
1869.644	1894	2.0092	31.277985	34.5904	1.8815	27.6529	27.6428	90.64	0.40	1.20456
1870.626	1895	2.0091	31.278305	34.5904	1.8814	27.6529	27.6428	90.66	0.40	1.20514
1871.609	1896	2.0083	31.278099	34.5905	1.8805	27.6530	27.6430	90.65	0.39	1.20310
1872.592	1897	2.0079	31.278147	34.5905	1.8800	27.6530	27.6430	90.62	0.40	1.20176

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1873.575	1898	2.0075	31.278078	34.5904	1.8795	27.6530	27.6429	90.63	0.38	1.20202
1874.557	1899	2.0075	31.278542	34.5905	1.8794	27.6531	27.6430	90.66	0.38	1.20220
1875.540	1900	2.0069	31.278316	34.5903	1.8788	27.6530	27.6429	90.68	0.38	1.20241
1876.523	1901	2.0063	31.278341	34.5905	1.8781	27.6532	27.6431	90.85	0.39	1.20261
1877.505	1902	2.0059	31.278252	34.5903	1.8776	27.6530	27.6430	90.88	0.38	1.20281
1878.488	1903	2.0058	31.278564	34.5903	1.8774	27.6531	27.6430	90.91	0.35	1.20302
1879.471	1904	2.0058	31.279005	34.5903	1.8774	27.6531	27.6430	90.91	0.35	1.20332
1880.454	1905	2.0057	31.279345	34.5903	1.8772	27.6531	27.6431	90.92	0.35	1.20363
1881.436	1906	2.0058	31.279762	34.5903	1.8772	27.6531	27.6430	90.94	0.35	1.20383
1882.419	1907	2.0063	31.280596	34.5903	1.8776	27.6530	27.6430	90.96	0.34	1.20399
1883.402	1908	2.0057	31.280214	34.5900	1.8769	27.6528	27.6427	90.96	0.34	1.20420
1884.384	1909	2.0049	31.279768	34.5898	1.8761	27.6528	27.6427	91.04	0.32	1.20442
1885.367	1910	2.0001	31.275532	34.5892	1.8712	27.6527	27.6426	91.11	0.29	1.20481
1886.350	1911	1.9936	31.270399	34.5893	1.8648	27.6532	27.6432	91.27	0.21	1.20527
1887.332	1912	1.9921	31.269333	34.5891	1.8632	27.6532	27.6431	91.82	0.18	1.20552
1888.315	1913	1.9922	31.269829	34.5892	1.8632	27.6532	27.6432	91.98	0.17	1.20585
1889.298	1914	1.9908	31.268759	34.5888	1.8618	27.6531	27.6430	92.06	0.18	1.20624
1890.280	1915	1.9855	31.264200	34.5883	1.8565	27.6531	27.6430	92.34	0.14	1.20629
1891.263	1916	1.9897	31.269112	34.5894	1.8606	27.6536	27.6435	92.25	0.14	1.20000
1892.246	1917	1.9934	31.273111	34.5899	1.8641	27.6537	27.6436	92.12	0.20	1.19644
1893.228	1918	1.9909	31.270845	34.5893	1.8615	27.6535	27.6434	91.87	0.19	1.19594
1894.211	1919	1.9829	31.263580	34.5884	1.8535	27.6534	27.6433	92.13	0.14	1.19976
1895.194	1920	1.9838	31.264990	34.5887	1.8544	27.6535	27.6434	92.30	0.11	1.19538
1896.176	1921	1.9828	31.264591	34.5887	1.8533	27.6537	27.6436	92.43	0.11	1.19530
1897.159	1922	1.9807	31.263020	34.5886	1.8511	27.6537	27.6437	92.51	0.10	1.19689
1898.141	1923	1.9808	31.264029	34.5892	1.8511	27.6542	27.6441	92.64	0.08	1.19722
1899.124	1924	1.9888	31.272346	34.5904	1.8590	27.6545	27.6444	92.31	0.15	1.20238
1900.107	1925	1.9894	31.273174	34.5903	1.8595	27.6544	27.6443	92.05	0.18	1.19441
1901.089	1926	1.9879	31.272266	34.5903	1.8579	27.6545	27.6444	92.00	0.17	1.19370
1902.072	1927	1.9882	31.273151	34.5905	1.8582	27.6547	27.6446	92.06	0.16	1.19453
1903.054	1928	1.9913	31.276678	34.5911	1.8611	27.6549	27.6448	92.09	0.17	1.19580
1904.037	1929	1.9921	31.277828	34.5911	1.8618	27.6549	27.6448	91.97	0.19	1.20240
1905.020	1930	1.9938	31.279907	34.5914	1.8634	27.6550	27.6449	91.78	0.21	1.19909
1906.002	1931	1.9943	31.280830	34.5915	1.8638	27.6550	27.6448	91.69	0.22	1.20787
1906.985	1932	1.9935	31.280554	34.5916	1.8629	27.6552	27.6450	91.68	0.21	1.21036
1907.967	1933	1.9926	31.279860	34.5912	1.8619	27.6549	27.6447	91.70	0.21	1.20579
1908.950	1934	1.9895	31.277264	34.5907	1.8588	27.6549	27.6447	91.80	0.19	1.20666
1909.932	1935	1.9897	31.278111	34.5911	1.8590	27.6551	27.6449	91.84	0.18	1.21282
1910.915	1936	1.9903	31.279154	34.5913	1.8594	27.6552	27.6450	91.91	0.18	1.21542
1911.898	1937	1.9889	31.278173	34.5911	1.8579	27.6552	27.6450	91.98	0.19	1.21123
1912.880	1938	1.9842	31.274025	34.5904	1.8533	27.6550	27.6448	91.98	0.17	1.21167
1913.863	1939	1.9840	31.274221	34.5904	1.8530	27.6551	27.6448	92.14	0.14	1.21192
1914.845	1940	1.9809	31.271542	34.5899	1.8499	27.6549	27.6446	92.27	0.13	1.21225
1915.828	1941	1.9783	31.269377	34.5896	1.8472	27.6548	27.6446	92.46	0.09	1.21256

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1916.810	1942	1.9742	31.266163	34.5895	1.8431	27.6551	27.6448	92.67	0.07	1.21292
1917.793	1943	1.9729	31.265488	34.5895	1.8417	27.6552	27.6450	92.82	0.06	1.21316
1918.775	1944	1.9725	31.265577	34.5896	1.8412	27.6553	27.6451	92.89	0.05	1.21336
1919.758	1945	1.9719	31.265469	34.5896	1.8406	27.6553	27.6451	92.89	0.05	1.20703
1920.740	1946	1.9714	31.265680	34.5899	1.8400	27.6557	27.6454	92.88	0.05	1.20014
1921.723	1947	1.9700	31.265257	34.5903	1.8386	27.6561	27.6459	92.84	0.05	1.20507
1922.705	1948	1.9706	31.265894	34.5900	1.8390	27.6558	27.6456	92.84	0.05	1.20784
1923.688	1949	1.9697	31.265791	34.5904	1.8380	27.6562	27.6459	92.85	0.05	1.20823
1924.670	1950	1.9698	31.266169	34.5903	1.8380	27.6561	27.6458	92.84	0.05	1.20654
1925.653	1951	1.9699	31.266726	34.5903	1.8381	27.6561	27.6459	92.83	0.05	1.20517
1926.635	1952	1.9698	31.267206	34.5905	1.8380	27.6562	27.6460	92.84	0.05	1.20660
1927.618	1953	1.9697	31.267607	34.5906	1.8377	27.6564	27.6461	92.84	0.05	1.21056
1928.600	1954	1.9699	31.268080	34.5905	1.8378	27.6563	27.6460	92.82	0.05	1.21110
1929.583	1955	1.9699	31.268692	34.5907	1.8378	27.6564	27.6462	92.83	0.05	1.20936
1930.565	1956	1.9700	31.269108	34.5907	1.8378	27.6564	27.6461	92.84	0.05	1.20957
1931.548	1957	1.9701	31.269533	34.5906	1.8378	27.6564	27.6461	92.84	0.05	1.20979
1932.530	1958	1.9703	31.270094	34.5906	1.8379	27.6563	27.6460	92.84	0.05	1.21001
1933.513	1959	1.9704	31.270666	34.5906	1.8380	27.6564	27.6461	92.83	0.05	1.21029
1934.495	1960	1.9702	31.271460	34.5913	1.8377	27.6569	27.6466	92.83	0.05	1.21048
1935.478	1961	1.9701	31.271902	34.5915	1.8375	27.6571	27.6467	92.82	0.06	1.21067
1936.460	1962	1.9703	31.272520	34.5915	1.8376	27.6571	27.6468	92.76	0.06	1.21084
1937.443	1963	1.9705	31.273029	34.5915	1.8377	27.6571	27.6467	92.72	0.06	1.21102
1938.425	1964	1.9705	31.273565	34.5917	1.8376	27.6572	27.6469	92.62	0.07	1.21120
1939.407	1965	1.9707	31.274311	34.5918	1.8377	27.6574	27.6470	92.56	0.07	1.21138
1940.390	1966	1.9706	31.274656	34.5919	1.8375	27.6574	27.6471	92.59	0.08	1.21287
1941.372	1967	1.9706	31.275000	34.5919	1.8374	27.6574	27.6470	92.62	0.08	1.21622
1942.355	1968	1.9706	31.275320	34.5918	1.8373	27.6573	27.6470	92.62	0.08	1.21891
1943.337	1969	1.9711	31.276548	34.5921	1.8378	27.6576	27.6472	92.04	0.07	1.22359
1944.319	1970	1.9739	31.279909	34.5928	1.8405	27.6579	27.6475	92.52	0.09	1.21872
1945.302	1971	1.9751	31.281473	34.5930	1.8415	27.6580	27.6476	92.38	0.12	1.21902
1946.284	1972	1.9756	31.282665	34.5934	1.8420	27.6583	27.6479	92.34	0.12	1.21918
1947.267	1973	1.9756	31.282932	34.5932	1.8419	27.6581	27.6477	92.36	0.12	1.21936
1948.249	1974	1.9740	31.281298	34.5925	1.8402	27.6577	27.6473	92.36	0.12	1.21963
1949.231	1975	1.9742	31.282141	34.5928	1.8404	27.6579	27.6475	92.36	0.10	1.22149
1950.214	1976	1.9750	31.283421	34.5930	1.8410	27.6581	27.6476	92.36	0.11	1.22902
1951.196	1977	1.9769	31.286047	34.5938	1.8428	27.6585	27.6481	92.35	0.14	1.23052
1952.179	1978	1.9761	31.285723	34.5937	1.8420	27.6585	27.6481	92.10	0.14	1.22715
1953.161	1979	1.9768	31.286825	34.5938	1.8426	27.6585	27.6481	92.05	0.14	1.22718
1954.143	1980	1.9765	31.286797	34.5936	1.8422	27.6584	27.6479	92.10	0.14	1.22738
1955.126	1981	1.9762	31.287350	34.5940	1.8419	27.6588	27.6483	92.10	0.13	1.22757
1956.108	1982	1.9764	31.287956	34.5941	1.8419	27.6589	27.6484	92.08	0.14	1.22995
1957.090	1983	1.9764	31.288145	34.5938	1.8419	27.6586	27.6482	92.03	0.14	1.23934
1958.073	1984	1.9768	31.289064	34.5941	1.8421	27.6588	27.6483	92.01	0.14	1.23926
1959.055	1985	1.9768	31.289549	34.5942	1.8421	27.6589	27.6484	91.98	0.14	1.23552

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1960.037	1986	1.9768	31.290092	34.5943	1.8420	27.6590	27.6485	92.00	0.15	1.23499
1961.020	1987	1.9770	31.290512	34.5942	1.8421	27.6589	27.6484	91.99	0.15	1.23531
1962.002	1988	1.9769	31.290705	34.5940	1.8419	27.6588	27.6483	91.97	0.15	1.23873
1962.984	1989	1.9767	31.290886	34.5940	1.8416	27.6588	27.6483	91.99	0.15	1.24789
1963.967	1990	1.9769	31.291737	34.5943	1.8418	27.6590	27.6485	92.08	0.15	1.24882
1964.949	1991	1.9824	31.298086	34.5958	1.8470	27.6598	27.6492	92.11	0.15	1.24418
1965.931	1992	1.9787	31.294155	34.5943	1.8434	27.6589	27.6484	92.14	0.14	1.24284
1966.914	1993	1.9857	31.302275	34.5964	1.8501	27.6601	27.6495	92.02	0.15	1.24263
1967.896	1994	1.9832	31.299921	34.5957	1.8476	27.6597	27.6491	91.59	0.19	1.24294
1968.878	1995	1.9846	31.302126	34.5963	1.8489	27.6601	27.6495	91.44	0.19	1.24305
1969.860	1996	1.9790	31.295996	34.5943	1.8433	27.6589	27.6483	91.54	0.16	1.24707
1970.843	1997	1.9761	31.293634	34.5940	1.8404	27.6589	27.6483	91.90	0.13	1.25447
1971.825	1998	1.9784	31.296421	34.5945	1.8425	27.6591	27.6486	92.17	0.12	1.25744
1972.807	1999	1.9821	31.300915	34.5956	1.8461	27.6598	27.6492	92.17	0.14	1.25285
1973.790	2000	1.9840	31.303062	34.5958	1.8479	27.6597	27.6491	92.03	0.21	1.25078
1974.772	2001	1.9779	31.297565	34.5950	1.8418	27.6596	27.6490	91.83	0.17	1.25128
1975.754	2002	1.9790	31.299162	34.5953	1.8428	27.6597	27.6491	91.87	0.17	1.25143
1976.736	2003	1.9789	31.299408	34.5952	1.8426	27.6597	27.6491	91.80	0.18	1.25163
1977.719	2004	1.9798	31.300972	34.5957	1.8434	27.6600	27.6494	91.82	0.19	1.25177
1978.701	2005	1.9806	31.302435	34.5961	1.8441	27.6603	27.6497	91.67	0.20	1.25192
1979.683	2006	1.9816	31.304388	34.5969	1.8451	27.6609	27.6502	91.59	0.21	1.25205
1980.665	2007	1.9827	31.306417	34.5978	1.8460	27.6615	27.6508	91.27	0.24	1.25223
1981.647	2008	1.9858	31.311554	34.6003	1.8489	27.6633	27.6526	90.44	0.32	1.25229
1982.630	2009	1.9842	31.311487	34.6014	1.8473	27.6643	27.6536	89.97	0.37	1.25271
1983.612	2010	1.9840	31.311884	34.6016	1.8470	27.6645	27.6538	89.85	0.38	1.25607
1984.594	2011	1.9831	31.311741	34.6019	1.8461	27.6648	27.6541	89.82	0.39	1.26744
1985.576	2012	1.9804	31.310175	34.6024	1.8433	27.6654	27.6547	89.78	0.38	1.27522
1986.559	2013	1.9808	31.310907	34.6024	1.8436	27.6654	27.6547	89.79	0.39	1.29000
1987.541	2014	1.9829	31.312952	34.6021	1.8456	27.6650	27.6543	89.77	0.39	1.29483
1988.523	2015	1.9817	31.312513	34.6024	1.8443	27.6653	27.6546	89.75	0.39	1.29965
1989.505	2016	1.9795	31.311037	34.6024	1.8421	27.6655	27.6548	89.86	0.39	1.30627
1990.487	2017	1.9787	31.310740	34.6025	1.8412	27.6656	27.6549	89.90	0.37	1.30631
1991.470	2018	1.9752	31.308416	34.6028	1.8377	27.6662	27.6554	89.95	0.37	1.30879
1992.452	2019	1.9738	31.307737	34.6030	1.8362	27.6664	27.6557	90.13	0.35	1.31362
1993.434	2020	1.9741	31.308544	34.6031	1.8365	27.6665	27.6558	90.19	0.34	1.31533
1994.416	2021	1.9699	31.305317	34.6032	1.8323	27.6669	27.6561	90.25	0.33	1.31195
1995.398	2022	1.9678	31.303932	34.6032	1.8301	27.6671	27.6563	90.43	0.32	1.32086
1996.380	2023	1.9660	31.303139	34.6037	1.8282	27.6676	27.6569	90.55	0.31	1.32316
1997.363	2024	1.9660	31.303743	34.6039	1.8282	27.6678	27.6571	90.61	0.31	1.31911
1998.345	2025	1.9662	31.304249	34.6039	1.8282	27.6677	27.6570	90.59	0.31	1.32454
1999.327	2026	1.9659	31.304447	34.6039	1.8279	27.6678	27.6570	90.58	0.31	1.32869
2000.309	2027	1.9655	31.304600	34.6040	1.8274	27.6679	27.6572	90.54	0.31	1.33066
2001.291	2028	1.9659	31.305115	34.6038	1.8277	27.6677	27.6570	90.57	0.31	1.33605
2002.273	2029	1.9661	31.305880	34.6040	1.8279	27.6678	27.6571	90.58	0.31	1.33428

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2003.255	2030	1.9659	31.305984	34.6039	1.8275	27.6678	27.6570	90.56	0.31	1.34012
2004.238	2031	1.9658	31.306421	34.6040	1.8273	27.6679	27.6572	90.60	0.31	1.34403
2005.220	2032	1.9658	31.306778	34.6040	1.8272	27.6679	27.6571	90.65	0.31	1.33885
2006.202	2033	1.9655	31.307039	34.6041	1.8269	27.6680	27.6573	90.67	0.30	1.33714
2007.184	2034	1.9655	31.307364	34.6040	1.8268	27.6680	27.6572	90.67	0.30	1.33735
2008.166	2035	1.9656	31.307869	34.6041	1.8268	27.6680	27.6572	90.67	0.30	1.33768
2009.148	2036	1.9654	31.308235	34.6042	1.8266	27.6681	27.6573	90.69	0.30	1.34539
2010.130	2037	1.9656	31.308775	34.6042	1.8266	27.6681	27.6573	90.68	0.31	1.34885
2011.112	2038	1.9659	31.309446	34.6041	1.8269	27.6681	27.6572	90.67	0.30	1.34566
2012.094	2039	1.9660	31.309914	34.6042	1.8268	27.6681	27.6573	90.67	0.30	1.34676
2013.077	2040	1.9649	31.309513	34.6043	1.8257	27.6683	27.6575	90.70	0.32	1.34541
2014.059	2041	1.9666	31.311357	34.6043	1.8273	27.6682	27.6573	90.55	0.33	1.34476
2015.041	2042	1.9658	31.310894	34.6041	1.8264	27.6681	27.6572	90.44	0.32	1.34557
2016.023	2043	1.9624	31.308432	34.6042	1.8230	27.6684	27.6576	90.44	0.33	1.34620
2017.005	2044	1.9626	31.309004	34.6043	1.8231	27.6684	27.6576	90.40	0.33	1.34648
2017.987	2045	1.9622	31.309090	34.6042	1.8227	27.6684	27.6576	90.42	0.33	1.34682
2018.969	2046	1.9603	31.307858	34.6042	1.8207	27.6686	27.6578	90.37	0.33	1.34691
2019.951	2047	1.9604	31.308281	34.6042	1.8206	27.6686	27.6578	90.41	0.34	1.34712
2020.933	2048	1.9592	31.307684	34.6042	1.8194	27.6687	27.6579	90.44	0.33	1.34739
2021.915	2049	1.9593	31.308254	34.6043	1.8195	27.6688	27.6579	90.43	0.33	1.34756
2022.897	2050	1.9591	31.308357	34.6042	1.8191	27.6687	27.6578	90.45	0.32	1.34785
2023.879	2051	1.9590	31.308676	34.6042	1.8190	27.6687	27.6579	90.43	0.33	1.34802
2024.861	2052	1.9775	31.326525	34.6059	1.8371	27.6687	27.6577	90.44	0.33	1.34734
2025.843	2053	2.0079	31.352104	34.6044	1.8670	27.6651	27.6541	90.33	0.32	1.34609
2026.825	2054	2.0150	31.359159	34.6050	1.8738	27.6651	27.6541	90.42	0.31	1.34593
2027.807	2055	2.0310	31.373583	34.6051	1.8895	27.6640	27.6529	90.40	0.33	1.34539
2028.789	2056	2.0355	31.378529	34.6059	1.8939	27.6643	27.6532	90.18	0.33	1.34535
2029.771	2057	2.0588	31.398781	34.6054	1.9167	27.6621	27.6509	90.07	0.34	1.34827
2030.753	2058	2.0570	31.397730	34.6056	1.9148	27.6624	27.6512	89.90	0.36	1.35926
2031.735	2059	2.0635	31.403463	34.6052	1.9211	27.6616	27.6504	89.71	0.37	1.35892
2032.717	2060	2.0580	31.399164	34.6053	1.9156	27.6621	27.6509	89.61	0.38	1.36726
2033.699	2061	2.0541	31.395975	34.6050	1.9118	27.6622	27.6509	89.54	0.37	1.36269
2034.681	2062	2.0518	31.393026	34.6034	1.9094	27.6611	27.6499	89.43	0.37	1.36620
2035.663	2063	2.0349	31.380003	34.6050	1.8926	27.6636	27.6525	89.46	0.36	1.37208
2036.645	2064	2.0384	31.383757	34.6054	1.8960	27.6637	27.6525	89.73	0.35	1.37230
2037.627	2065	2.0435	31.387829	34.6043	1.9010	27.6625	27.6513	89.79	0.36	1.36902
2038.609	2066	2.0333	31.379625	34.6048	1.8908	27.6636	27.6524	89.87	0.36	1.36768
2039.591	2067	2.0493	31.393774	34.6045	1.9065	27.6622	27.6509	89.64	0.36	1.36692
2040.573	2068	2.0332	31.380365	34.6047	1.8906	27.6636	27.6524	89.57	0.37	1.36801
2041.555	2069	2.0422	31.388922	34.6051	1.8994	27.6632	27.6520	89.68	0.35	1.36777
2042.537	2070	2.0469	31.393028	34.6047	1.9039	27.6625	27.6513	89.68	0.36	1.36779
2043.519	2071	2.0553	31.401501	34.6056	1.9121	27.6626	27.6513	89.40	0.37	1.36767
2044.501	2072	2.0624	31.407387	34.6048	1.9189	27.6615	27.6502	89.42	0.37	1.36761
2045.483	2073	2.0726	31.417030	34.6053	1.9289	27.6611	27.6497	89.49	0.39	1.36731

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2046.465	2074	2.0570	31.403263	34.6045	1.9135	27.6617	27.6503	89.36	0.39	1.36831
2047.447	2075	2.0545	31.401426	34.6044	1.9109	27.6618	27.6505	89.26	0.39	1.36863
2048.429	2076	2.0190	31.371477	34.6050	1.8759	27.6650	27.6538	89.55	0.36	1.37059
2049.411	2077	2.0240	31.374105	34.6025	1.8808	27.6625	27.6513	89.63	0.35	1.37058
2050.393	2078	2.0076	31.361025	34.6034	1.8645	27.6646	27.6534	89.82	0.35	1.37159
2051.375	2079	1.9735	31.331615	34.6031	1.8309	27.6670	27.6558	89.67	0.36	1.37234
2052.356	2080	1.9892	31.346981	34.6048	1.8462	27.6671	27.6559	90.30	0.30	1.36465
2053.338	2081	2.0102	31.365282	34.6044	1.8669	27.6652	27.6539	90.56	0.27	1.35857
2054.320	2082	2.0216	31.375748	34.6046	1.8780	27.6644	27.6532	90.25	0.33	1.36302
2055.302	2083	2.0300	31.383457	34.6046	1.8861	27.6639	27.6526	90.08	0.34	1.36493
2056.284	2084	2.0315	31.385168	34.6046	1.8876	27.6637	27.6524	89.95	0.35	1.36504
2057.266	2085	2.0344	31.387980	34.6044	1.8904	27.6634	27.6521	89.87	0.36	1.36356
2058.248	2086	2.0358	31.390215	34.6052	1.8916	27.6639	27.6526	89.90	0.35	1.36485
2059.229	2087	2.0212	31.377605	34.6048	1.8771	27.6647	27.6534	89.81	0.36	1.36369
2060.211	2088	2.0150	31.372368	34.6045	1.8709	27.6650	27.6537	90.00	0.34	1.36303
2061.193	2089	2.0298	31.385378	34.6042	1.8855	27.6636	27.6522	89.98	0.34	1.36243
2062.175	2090	2.0288	31.385101	34.6045	1.8844	27.6639	27.6526	89.90	0.35	1.36530
2063.157	2091	2.0172	31.375267	34.6043	1.8728	27.6646	27.6533	89.90	0.34	1.36745
2064.139	2092	1.9586	31.324644	34.6042	1.8151	27.6690	27.6579	90.12	0.28	1.36802
2065.121	2093	1.9576	31.324286	34.6043	1.8140	27.6692	27.6580	90.58	0.28	1.36719
2066.103	2094	1.9566	31.323734	34.6042	1.8130	27.6692	27.6580	90.81	0.29	1.35841
2067.084	2095	1.9562	31.323910	34.6043	1.8125	27.6693	27.6581	91.26	0.29	1.36093
2068.066	2096	1.9555	31.323273	34.6038	1.8117	27.6690	27.6578	91.41	0.26	1.36474
2069.048	2097	1.9446	31.314053	34.6036	1.8009	27.6696	27.6585	91.53	0.22	1.36358
2070.030	2098	1.9452	31.315197	34.6039	1.8014	27.6698	27.6587	91.56	0.21	1.35556
2071.012	2099	1.9444	31.314800	34.6038	1.8005	27.6698	27.6587	91.50	0.21	1.35667
2071.994	2100	1.9443	31.315174	34.6039	1.8003	27.6699	27.6587	91.49	0.21	1.35818
2072.975	2101	1.9445	31.315775	34.6039	1.8005	27.6699	27.6587	91.50	0.22	1.35997
2073.957	2102	1.9457	31.317438	34.6041	1.8016	27.6700	27.6588	91.53	0.22	1.36009
2074.939	2103	1.9451	31.317472	34.6043	1.8009	27.6702	27.6590	91.55	0.22	1.35369
2075.921	2104	1.9460	31.318600	34.6043	1.8017	27.6701	27.6590	91.55	0.22	1.34731
2076.903	2105	1.9462	31.319195	34.6043	1.8018	27.6701	27.6589	91.52	0.22	1.34925
2077.884	2106	1.9455	31.318691	34.6040	1.8010	27.6699	27.6587	91.54	0.23	1.35259
2078.866	2107	2.0011	31.369982	34.6071	1.8557	27.6682	27.6568	91.42	0.31	1.34983
2079.848	2108	2.0223	31.387182	34.6052	1.8764	27.6651	27.6537	90.69	0.33	1.35081
2080.830	2109	2.0056	31.371876	34.6037	1.8599	27.6652	27.6538	90.65	0.29	1.35195
2081.812	2110	2.0114	31.378389	34.6050	1.8655	27.6658	27.6544	90.49	0.27	1.35193
2082.793	2111	2.0056	31.373217	34.6044	1.8597	27.6657	27.6543	90.58	0.29	1.35432
2083.775	2112	2.0029	31.371464	34.6046	1.8570	27.6661	27.6547	90.80	0.29	1.36503
2084.757	2113	1.9981	31.367260	34.6040	1.8522	27.6660	27.6546	90.82	0.29	1.36760
2085.739	2114	1.9717	31.343948	34.6031	1.8261	27.6673	27.6560	91.12	0.27	1.36317
2086.720	2115	1.9446	31.321661	34.6041	1.7994	27.6701	27.6589	91.35	0.24	1.36295
2087.702	2116	1.9675	31.342596	34.6050	1.8218	27.6691	27.6578	91.52	0.22	1.36200
2088.684	2117	1.9804	31.353289	34.6038	1.8344	27.6672	27.6559	91.59	0.23	1.36172

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2089.666	2118	1.9773	31.350267	34.6029	1.8313	27.6668	27.6554	91.59	0.25	1.36170
2090.647	2119	1.9467	31.324732	34.6038	1.8011	27.6697	27.6585	91.66	0.22	1.36377
2091.629	2120	1.9440	31.322851	34.6038	1.7984	27.6700	27.6587	91.68	0.20	1.35569
2092.611	2121	1.9439	31.323023	34.6037	1.7981	27.6699	27.6586	91.67	0.20	1.35372
2093.592	2122	1.9441	31.323689	34.6038	1.7983	27.6699	27.6587	91.65	0.20	1.35527
2094.574	2123	1.9436	31.323557	34.6037	1.7977	27.6699	27.6586	91.67	0.20	1.35620
2095.556	2124	1.9436	31.324064	34.6038	1.7976	27.6700	27.6587	91.68	0.20	1.35838
2096.538	2125	1.9435	31.324377	34.6038	1.7974	27.6700	27.6587	91.71	0.19	1.35847
2097.519	2126	1.9431	31.324400	34.6038	1.7969	27.6701	27.6587	91.73	0.19	1.35368
2098.501	2127	1.9417	31.323544	34.6037	1.7955	27.6701	27.6588	91.75	0.19	1.35376
2099.483	2128	1.9406	31.322958	34.6037	1.7943	27.6702	27.6589	91.81	0.18	1.34888
2100.464	2129	1.9405	31.323214	34.6036	1.7941	27.6702	27.6588	91.85	0.18	1.35001
2101.446	2130	1.9404	31.323584	34.6037	1.7939	27.6702	27.6589	91.85	0.18	1.35224
2102.428	2131	1.9396	31.323360	34.6038	1.7931	27.6704	27.6590	91.86	0.18	1.35335
2103.409	2132	1.9401	31.324152	34.6037	1.7935	27.6703	27.6589	91.89	0.17	1.35353
2104.391	2133	1.9394	31.323935	34.6037	1.7927	27.6703	27.6590	91.90	0.17	1.34929
2105.373	2134	1.9372	31.322660	34.6040	1.7905	27.6707	27.6594	91.91	0.17	1.34945
2106.354	2135	1.9371	31.322910	34.6039	1.7903	27.6707	27.6593	91.94	0.16	1.35101
2107.336	2136	1.9366	31.322966	34.6040	1.7897	27.6708	27.6594	91.95	0.16	1.34946
2108.318	2137	1.9367	31.323381	34.6040	1.7897	27.6708	27.6594	91.95	0.16	1.35152
2109.299	2138	1.9365	31.323805	34.6042	1.7894	27.6710	27.6596	91.95	0.16	1.34986
2110.281	2139	1.9365	31.324265	34.6043	1.7894	27.6710	27.6597	91.97	0.17	1.35281
2111.262	2140	1.9365	31.324615	34.6042	1.7893	27.6710	27.6596	91.96	0.16	1.35502
2112.244	2141	1.9367	31.325230	34.6043	1.7894	27.6710	27.6596	91.95	0.16	1.35215
2113.226	2142	1.9371	31.326077	34.6044	1.7897	27.6711	27.6597	91.90	0.17	1.34982
2114.208	2143	1.9369	31.326498	34.6046	1.7895	27.6713	27.6599	91.87	0.17	1.35149
2115.189	2144	1.9373	31.327147	34.6045	1.7897	27.6712	27.6598	91.82	0.17	1.35391
2116.171	2145	1.9374	31.327770	34.6047	1.7897	27.6713	27.6599	91.82	0.17	1.35539
2117.152	2146	1.9374	31.328403	34.6050	1.7896	27.6716	27.6602	91.74	0.18	1.35230
2118.134	2147	2.1585	31.524786	34.6096	2.0071	27.6584	27.6463	89.89	0.47	1.34465
2119.115	2148	2.2395	31.593079	34.6065	2.0866	27.6496	27.6371	86.36	0.62	1.34152
2120.097	2149	2.3420	31.680712	34.6040	2.1874	27.6394	27.6266	85.36	0.76	1.35226
2121.079	2150	2.2770	31.629719	34.6103	2.1234	27.6496	27.6371	85.45	0.76	1.35708
2122.060	2151	2.2830	31.628923	34.6025	2.1292	27.6429	27.6304	87.00	0.65	1.36069
2123.042	2152	2.1452	31.512756	34.6066	1.9936	27.6571	27.6449	88.08	0.56	1.37221
2124.023	2153	2.1079	31.479097	34.6047	1.9568	27.6584	27.6464	88.22	0.51	1.37880
2125.005	2154	2.0737	31.451504	34.6068	1.9230	27.6628	27.6509	87.52	0.49	1.37461
2125.987	2155	2.1312	31.506723	34.6127	1.9795	27.6631	27.6510	86.77	0.42	1.37398
2126.968	2156	2.2375	31.595581	34.6078	2.0840	27.6508	27.6383	86.51	0.46	1.37342
2127.950	2157	2.2008	31.560707	34.6037	2.0478	27.6504	27.6381	84.88	0.74	1.37345
2128.931	2158	2.2214	31.579447	34.6042	2.0680	27.6492	27.6368	85.58	0.75	1.37581
2129.913	2159	2.1377	31.507149	34.6044	1.9855	27.6559	27.6438	86.73	0.69	1.37720
2130.894	2160	1.9882	31.373638	34.5995	1.8385	27.6634	27.6518	87.48	0.44	1.38969
2131.876	2161	1.9385	31.334961	34.6046	1.7894	27.6713	27.6598	90.44	0.23	1.39139

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2132.857	2162	1.9394	31.335434	34.6037	1.7902	27.6705	27.6590	91.39	0.21	1.38386
2133.839	2163	1.9392	31.335558	34.6036	1.7900	27.6704	27.6589	91.62	0.21	1.38422
2134.820	2164	1.9392	31.335926	34.6035	1.7899	27.6704	27.6588	91.66	0.20	1.38203
2135.802	2165	1.9393	31.336538	34.6037	1.7899	27.6705	27.6590	91.67	0.20	1.37392
2136.783	2166	1.9393	31.337288	34.6041	1.7898	27.6709	27.6593	91.68	0.20	1.37109
2137.765	2167	1.9392	31.337646	34.6042	1.7896	27.6710	27.6594	91.69	0.20	1.37246
2138.747	2168	1.9390	31.338093	34.6045	1.7893	27.6712	27.6596	91.70	0.19	1.37157
2139.728	2169	1.9433	31.343859	34.6065	1.7935	27.6725	27.6609	91.70	0.33	1.36234
2140.709	2170	2.1221	31.500111	34.6071	1.9692	27.6594	27.6472	90.71	0.34	1.35931
2141.691	2171	2.2956	31.647533	34.6022	2.1398	27.6418	27.6291	86.49	0.55	1.36150
2142.672	2172	2.3390	31.684750	34.6009	2.1825	27.6373	27.6244	85.31	0.67	1.36476
2143.654	2173	2.3787	31.723597	34.6056	2.2214	27.6379	27.6248	83.45	0.66	1.36497
2144.635	2174	2.3944	31.737537	34.6054	2.2368	27.6365	27.6234	84.84	0.66	1.36956
2145.617	2175	2.0296	31.417522	34.6020	1.8779	27.6624	27.6505	85.68	0.65	1.38538
2146.598	2176	2.0545	31.432413	34.5932	1.9023	27.6535	27.6415	87.37	0.55	1.36908
2147.580	2177	1.9413	31.343431	34.6042	1.7908	27.6709	27.6592	84.04	0.40	1.38164
2148.561	2178	2.1778	31.545677	34.5996	2.0234	27.6491	27.6367	83.89	0.30	1.36511
2149.543	2179	2.5311	31.856228	34.6023	2.3707	27.6229	27.6093	82.46	0.61	1.36339
2150.524	2180	2.4209	31.773336	34.6180	2.2622	27.6445	27.6312	83.91	0.84	1.36810
2151.506	2181	2.5131	31.838432	34.5989	2.3529	27.6216	27.6081	83.61	1.02	1.36491
2152.487	2182	2.1001	31.480272	34.6004	1.9466	27.6557	27.6436	85.34	0.82	1.38586
2153.469	2183	1.9308	31.334528	34.6015	1.7800	27.6695	27.6579	86.93	0.62	1.37281
2154.450	2184	1.9834	31.382862	34.6044	1.8316	27.6679	27.6560	89.30	0.24	1.36884
2155.431	2185	1.9975	31.395775	34.6047	1.8454	27.6670	27.6552	89.57	0.29	1.37343
2156.413	2186	2.0181	31.415228	34.6060	1.8656	27.6666	27.6546	90.35	0.25	1.37199
2157.394	2187	2.0387	31.433939	34.6066	1.8857	27.6655	27.6535	90.42	0.28	1.37126
2158.376	2188	2.0128	31.412289	34.6071	1.8602	27.6678	27.6559	90.51	0.29	1.37766
2159.357	2189	2.0027	31.403027	34.6061	1.8501	27.6678	27.6559	90.63	0.28	1.38726
2160.339	2190	2.0274	31.424915	34.6060	1.8744	27.6659	27.6539	90.27	0.27	1.38590
2161.320	2191	1.9514	31.358496	34.6051	1.7995	27.6710	27.6592	90.58	0.30	1.39202
2162.301	2192	1.9390	31.347927	34.6048	1.7873	27.6716	27.6599	91.52	0.23	1.38399
2163.283	2193	1.9396	31.348988	34.6051	1.7877	27.6718	27.6601	91.71	0.18	1.38432
2164.264	2194	1.9391	31.349293	34.6054	1.7872	27.6721	27.6604	91.76	0.19	1.37256
2165.246	2195	1.9372	31.348101	34.6056	1.7852	27.6724	27.6606	91.74	0.18	1.36681
2166.227	2196	1.9388	31.349760	34.6054	1.7868	27.6721	27.6603	91.74	0.18	1.36853
2167.208	2197	1.9253	31.340023	34.6074	1.7733	27.6747	27.6630	91.86	0.17	1.37373
2168.190	2198	1.9122	31.330521	34.6092	1.7603	27.6772	27.6655	92.02	0.17	1.36381
2169.171	2199	1.9143	31.331976	34.6082	1.7624	27.6762	27.6645	92.36	0.16	1.37987
2170.152	2200	1.9190	31.336508	34.6082	1.7669	27.6759	27.6642	92.51	0.15	1.39229
2171.134	2201	1.9083	31.328651	34.6095	1.7563	27.6778	27.6661	92.42	0.15	1.39724
2172.115	2202	1.9068	31.327681	34.6094	1.7548	27.6778	27.6661	92.34	0.14	1.40391
2173.096	2203	1.9049	31.326601	34.6097	1.7528	27.6782	27.6665	92.33	0.12	1.40167
2174.078	2204	1.9026	31.325377	34.6101	1.7504	27.6787	27.6670	92.36	0.10	1.39810
2175.059	2205	1.9018	31.325344	34.6104	1.7496	27.6790	27.6673	92.46	0.10	1.40214

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2176.041	2206	1.9013	31.325275	34.6105	1.7490	27.6791	27.6674	92.49	0.10	1.41728
2177.022	2207	1.9025	31.326559	34.6103	1.7500	27.6789	27.6671	92.50	0.10	1.41531
2178.003	2208	1.9018	31.326544	34.6105	1.7493	27.6791	27.6674	92.51	0.10	1.42205
2178.984	2209	1.9017	31.326778	34.6105	1.7491	27.6791	27.6673	92.49	0.11	1.42055
2179.966	2210	1.8998	31.325754	34.6107	1.7471	27.6794	27.6677	92.51	0.10	1.42034
2180.947	2211	1.8976	31.324883	34.6115	1.7449	27.6802	27.6685	92.51	0.10	1.42063
2181.928	2212	1.8987	31.325821	34.6109	1.7459	27.6797	27.6679	92.51	0.10	1.42413
2182.910	2213	1.8868	31.317755	34.6133	1.7341	27.6825	27.6708	92.49	0.09	1.42575
2183.891	2214	1.8836	31.315256	34.6132	1.7308	27.6826	27.6709	92.47	0.08	1.42974
2184.872	2215	1.8925	31.322697	34.6123	1.7395	27.6813	27.6695	92.57	0.08	1.44534
2185.854	2216	1.9152	31.344194	34.6140	1.7617	27.6810	27.6691	92.68	0.09	1.45451
2186.835	2217	2.0924	31.497353	34.6125	1.9359	27.6663	27.6539	92.65	0.08	1.45116
2187.816	2218	2.1868	31.582649	34.6160	2.0286	27.6618	27.6490	92.64	0.07	1.44403
2188.797	2219	1.9707	31.395708	34.6166	1.8161	27.6789	27.6669	92.61	0.07	1.46201
2189.779	2220	2.0358	31.450861	34.6144	1.8800	27.6722	27.6600	92.67	0.08	1.45458
2190.760	2221	2.0681	31.479301	34.6143	1.9117	27.6697	27.6573	92.68	0.07	1.45793
2191.741	2222	2.0590	31.471735	34.6144	1.9026	27.6704	27.6581	92.67	0.08	1.46995
2192.723	2223	2.0580	31.470903	34.6139	1.9016	27.6701	27.6577	92.64	0.09	1.47071
2191.741	2222	2.0469	31.460682	34.6136	1.8908	27.6707	27.6584	92.67	0.08	1.46930
2190.760	2221	2.0328	31.448248	34.6139	1.8770	27.6720	27.6598	92.65	0.08	1.47234
2189.779	2220	2.0297	31.445374	34.6141	1.8740	27.6724	27.6602	92.66	0.07	1.47691
2188.797	2219	1.9939	31.413540	34.6138	1.8389	27.6749	27.6628	92.64	0.08	1.47802
2187.816	2218	2.0274	31.442345	34.6139	1.8719	27.6724	27.6602	92.67	0.09	1.47601
2186.835	2217	2.0553	31.465218	34.6127	1.8994	27.6693	27.6570	92.60	0.10	1.47431
2185.854	2216	2.0383	31.450439	34.6132	1.8828	27.6710	27.6587	92.50	0.10	1.46629
2184.872	2215	2.0726	31.480112	34.6135	1.9166	27.6686	27.6563	92.43	0.11	1.46926
2183.891	2214	2.0554	31.464998	34.6137	1.8998	27.6701	27.6578	92.48	0.10	1.46904
2182.910	2213	2.0496	31.459558	34.6138	1.8942	27.6706	27.6583	92.48	0.10	1.46829
2181.928	2212	2.0509	31.460131	34.6136	1.8956	27.6703	27.6581	92.48	0.11	1.46897
2180.947	2211	2.0429	31.452723	34.6135	1.8878	27.6708	27.6586	92.49	0.10	1.47156
2179.966	2210	2.0400	31.449768	34.6135	1.8850	27.6711	27.6589	92.50	0.10	1.47140
2178.984	2209	2.0411	31.450226	34.6133	1.8862	27.6708	27.6586	92.50	0.10	1.46739
2178.003	2208	2.0434	31.451723	34.6132	1.8885	27.6706	27.6584	92.50	0.10	1.46827
2177.022	2207	2.0552	31.461645	34.6133	1.9002	27.6697	27.6575	92.51	0.10	1.46853
2176.041	2206	2.0703	31.473804	34.6126	1.9151	27.6680	27.6557	92.51	0.11	1.46686
2175.059	2205	2.0923	31.491867	34.6117	1.9369	27.6656	27.6533	92.50	0.12	1.46962
2174.078	2204	2.1126	31.509596	34.6123	1.9570	27.6645	27.6521	92.49	0.11	1.46749
2173.096	2203	2.1011	31.499779	34.6130	1.9457	27.6659	27.6536	92.50	0.11	1.46658
2172.115	2202	2.0817	31.482424	34.6129	1.9267	27.6673	27.6550	92.45	0.11	1.46943
2171.134	2201	2.1192	31.514856	34.6132	1.9637	27.6647	27.6523	92.49	0.10	1.46406
2170.152	2200	2.1800	31.568102	34.6140	2.0236	27.6606	27.6480	92.50	0.10	1.46047
2169.171	2199	2.2893	31.659100	34.6094	2.1312	27.6483	27.6353	92.40	0.15	1.45192
2168.190	2198	2.1914	31.576185	34.6127	2.0350	27.6587	27.6461	92.18	0.21	1.46128
2167.208	2197	2.2236	31.600954	34.6093	2.0667	27.6534	27.6407	91.22	0.22	1.46698

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2166.227	2196	2.2589	31.630787	34.6087	2.1015	27.6501	27.6373	90.96	0.21	1.45783
2165.246	2195	2.3283	31.689962	34.6076	2.1699	27.6437	27.6307	91.11	0.16	1.45142
2164.264	2194	2.3078	31.668545	34.6037	2.1498	27.6422	27.6293	89.26	0.13	1.45919
2163.283	2193	1.9978	31.403248	34.6096	1.8450	27.6710	27.6591	91.29	0.10	1.47772
2162.301	2192	1.9348	31.348436	34.6099	1.7832	27.6760	27.6643	91.62	0.15	1.47931
2161.320	2191	2.0606	31.459677	34.6129	1.9069	27.6689	27.6567	90.75	0.26	1.46649
2160.339	2190	2.2845	31.650564	34.6085	2.1272	27.6479	27.6350	90.12	0.33	1.44642
2159.357	2189	2.3563	31.712036	34.6076	2.1980	27.6414	27.6283	89.77	0.32	1.43048
2158.376	2188	2.3383	31.696671	34.6085	2.1803	27.6436	27.6306	88.80	0.27	1.43912
2157.394	2187	2.3128	31.674376	34.6089	2.1553	27.6459	27.6330	89.12	0.28	1.45309
2156.413	2186	2.2839	31.648081	34.6080	2.1270	27.6475	27.6347	90.01	0.25	1.44627
2155.431	2185	2.1002	31.489664	34.6103	1.9464	27.6637	27.6515	91.21	0.15	1.44610
2154.450	2184	1.9861	31.387997	34.6077	1.8343	27.6703	27.6585	91.28	0.12	1.45444
2153.469	2183	1.9361	31.343584	34.6070	1.7852	27.6735	27.6619	90.90	0.13	1.45803
2152.487	2182	1.9281	31.335655	34.6063	1.7774	27.6736	27.6619	91.56	0.18	1.44729
2151.506	2181	1.9330	31.338783	34.6054	1.7823	27.6725	27.6609	91.91	0.20	1.44533
2150.524	2180	1.9421	31.345304	34.6042	1.7913	27.6708	27.6592	91.76	0.19	1.44191
2149.543	2179	1.9376	31.341738	34.6050	1.7870	27.6718	27.6602	91.73	0.18	1.43377
2148.561	2178	1.9384	31.342447	34.6055	1.7879	27.6722	27.6605	91.86	0.21	1.42798
2147.580	2177	1.9923	31.389116	34.6059	1.8410	27.6684	27.6565	91.87	0.68	1.41774
2146.598	2176	2.3799	31.723188	34.6023	2.2224	27.6352	27.6222	87.14	2.02	1.39207
2145.617	2175	2.8356	32.117249	34.5978	2.6707	27.5936	27.5790	80.54	1.87	1.36819
2144.635	2174	2.8292	32.109859	34.5961	2.6645	27.5928	27.5782	79.32	0.82	1.36190
2143.654	2173	2.4333	31.771191	34.6056	2.2751	27.6335	27.6203	80.79	0.62	1.39241
2142.672	2172	2.2881	31.648136	34.6104	2.1323	27.6490	27.6363	84.10	0.28	1.42114
2141.691	2171	2.1716	31.542734	34.6060	2.0179	27.6547	27.6423	87.63	0.21	1.43681
2140.709	2170	2.1112	31.492588	34.6094	1.9585	27.6621	27.6499	89.19	0.25	1.42346
2139.728	2169	2.1666	31.537939	34.6065	2.0131	27.6554	27.6431	89.23	0.28	1.39790
2138.747	2168	2.1869	31.554955	34.6061	2.0332	27.6535	27.6411	87.54	0.37	1.38690
2137.765	2167	2.1816	31.549618	34.6057	2.0281	27.6536	27.6413	87.25	0.52	1.39403
2136.783	2166	2.1757	31.545061	34.6069	2.0223	27.6550	27.6427	86.83	0.55	1.40233
2135.802	2165	2.2061	31.571070	34.6068	2.0523	27.6526	27.6402	86.53	0.59	1.39850
2134.820	2164	2.2585	31.614632	34.6048	2.1040	27.6468	27.6342	85.83	0.63	1.39788
2133.839	2163	2.3182	31.668152	34.6072	2.1627	27.6439	27.6312	85.60	0.70	1.39802
2132.857	2162	2.3521	31.694801	34.6041	2.1962	27.6388	27.6259	84.18	0.74	1.39519
2131.876	2161	2.4165	31.750612	34.6041	2.2597	27.6336	27.6205	84.92	0.70	1.39363
2130.894	2160	2.3905	31.727627	34.6043	2.2341	27.6358	27.6228	85.92	0.72	1.39599
2129.913	2159	2.4261	31.759642	34.6059	2.2693	27.6342	27.6211	85.12	0.59	1.39420
2128.931	2158	2.4820	31.805555	34.6029	2.3244	27.6272	27.6140	83.76	0.63	1.39310
2127.950	2157	2.4746	31.800402	34.6050	2.3172	27.6295	27.6163	83.97	0.71	1.39713
2126.968	2156	2.4588	31.785902	34.6046	2.3017	27.6305	27.6173	84.40	0.73	1.40103
2125.987	2155	2.4295	31.762703	34.6079	2.2730	27.6355	27.6225	83.90	0.72	1.39664
2125.005	2154	2.4607	31.785213	34.6027	2.3038	27.6288	27.6156	84.30	0.76	1.39697
2124.023	2153	2.4554	31.780712	34.6033	2.2987	27.6297	27.6166	84.19	0.75	1.39609

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2123.042	2152	2.4560	31.781988	34.6047	2.2993	27.6308	27.6176	84.33	0.79	1.39973
2122.060	2151	2.4581	31.782108	34.6032	2.3014	27.6294	27.6162	85.08	0.85	1.39903
2121.079	2150	2.4072	31.736948	34.6027	2.2515	27.6332	27.6202	86.32	0.89	1.40822
2120.097	2149	2.3598	31.695152	34.6026	2.2050	27.6369	27.6241	86.60	0.65	1.41150
2119.115	2148	2.2947	31.638367	34.6030	2.1410	27.6424	27.6298	86.59	0.44	1.41296
2118.134	2147	2.2750	31.620890	34.6032	2.1217	27.6441	27.6316	85.15	0.75	1.40667
2117.152	2146	2.2654	31.611553	34.6024	2.1124	27.6442	27.6317	85.45	0.47	1.39718
2116.171	2145	2.1156	31.490652	34.6145	1.9650	27.6657	27.6537	87.57	0.23	1.40433
2115.189	2144	2.0164	31.397329	34.6064	1.8675	27.6667	27.6551	90.43	0.21	1.41488
2114.208	2143	1.9778	31.360126	34.6023	1.8297	27.6664	27.6549	91.16	0.17	1.40434
2113.226	2142	1.9468	31.332371	34.6018	1.7992	27.6683	27.6569	91.65	0.17	1.39735
2112.244	2141	1.9427	31.328569	34.6020	1.7953	27.6687	27.6573	91.77	0.17	1.39319
2111.262	2140	1.9407	31.326233	34.6017	1.7934	27.6687	27.6573	91.83	0.17	1.38340
2110.281	2139	1.9395	31.324915	34.6018	1.7923	27.6689	27.6575	91.87	0.17	1.37531
2109.299	2138	1.9392	31.324291	34.6019	1.7921	27.6690	27.6576	91.90	0.17	1.37752
2108.318	2137	1.9392	31.323992	34.6020	1.7922	27.6690	27.6576	91.90	0.17	1.37395
2107.336	2136	1.9388	31.323380	34.6022	1.7919	27.6692	27.6578	91.90	0.17	1.36832
2106.354	2135	1.9391	31.323519	34.6026	1.7922	27.6695	27.6581	91.90	0.17	1.36618
2105.373	2134	1.9394	31.323412	34.6026	1.7926	27.6694	27.6581	91.89	0.17	1.36636
2104.391	2133	1.9391	31.323004	34.6029	1.7924	27.6697	27.6583	91.87	0.17	1.36086
2103.409	2132	1.9393	31.322956	34.6030	1.7928	27.6698	27.6585	91.86	0.17	1.36065
2102.428	2131	1.9392	31.322559	34.6032	1.7927	27.6700	27.6586	91.85	0.17	1.35553
2101.446	2130	1.9391	31.322235	34.6034	1.7927	27.6701	27.6587	91.86	0.18	1.35565
2100.464	2129	1.9391	31.322039	34.6036	1.7928	27.6703	27.6589	91.90	0.17	1.36085
2099.483	2128	1.9386	31.321268	34.6037	1.7923	27.6704	27.6591	91.90	0.17	1.35469
2098.501	2127	1.9382	31.320669	34.6039	1.7921	27.6705	27.6592	91.90	0.17	1.34863
2097.519	2126	1.9383	31.320450	34.6040	1.7922	27.6706	27.6593	91.90	0.17	1.35004
2096.538	2125	1.9385	31.320185	34.6040	1.7925	27.6706	27.6593	91.88	0.17	1.35328
2095.556	2124	1.9385	31.319880	34.6041	1.7926	27.6706	27.6593	91.90	0.17	1.35468
2094.574	2123	1.9385	31.319527	34.6042	1.7927	27.6707	27.6594	91.87	0.18	1.35504
2093.592	2122	1.9386	31.319157	34.6040	1.7929	27.6706	27.6593	91.85	0.18	1.35139
2092.611	2121	1.9386	31.318758	34.6041	1.7929	27.6706	27.6594	91.85	0.18	1.34793
2091.629	2120	1.9384	31.318310	34.6042	1.7929	27.6707	27.6594	91.89	0.17	1.34890
2090.647	2119	1.9383	31.317879	34.6043	1.7928	27.6708	27.6596	91.90	0.17	1.35091
2089.666	2118	1.9381	31.317324	34.6043	1.7928	27.6708	27.6595	91.87	0.17	1.35038
2088.684	2117	1.9381	31.317017	34.6044	1.7928	27.6708	27.6596	91.85	0.18	1.34848
2087.702	2116	1.9381	31.316580	34.6044	1.7929	27.6709	27.6596	91.86	0.18	1.35024
2086.720	2115	1.9380	31.316113	34.6044	1.7929	27.6709	27.6597	91.85	0.18	1.35038
2085.739	2114	1.9381	31.315739	34.6043	1.7931	27.6707	27.6595	91.85	0.18	1.35091
2084.757	2113	1.9386	31.315655	34.6042	1.7936	27.6706	27.6594	91.83	0.18	1.34935
2083.775	2112	1.9384	31.315254	34.6044	1.7935	27.6708	27.6596	91.83	0.18	1.34826
2082.793	2111	1.9386	31.314974	34.6042	1.7939	27.6707	27.6595	91.81	0.19	1.34664
2081.812	2110	1.9392	31.315140	34.6043	1.7945	27.6707	27.6595	91.74	0.19	1.34809
2080.830	2109	1.9399	31.315247	34.6042	1.7952	27.6706	27.6594	91.74	0.20	1.34761

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2079.848	2108	1.9401	31.314985	34.6042	1.7955	27.6705	27.6593	91.70	0.20	1.35085
2078.866	2107	1.9402	31.314840	34.6044	1.7957	27.6706	27.6595	91.70	0.20	1.34689
2077.884	2106	1.9404	31.314589	34.6043	1.7961	27.6705	27.6594	91.70	0.20	1.34586
2076.903	2105	1.9413	31.314848	34.6042	1.7970	27.6704	27.6593	91.69	0.20	1.34569
2075.921	2104	1.9422	31.315243	34.6042	1.7979	27.6704	27.6592	91.68	0.20	1.34183
2074.939	2103	1.9424	31.315094	34.6043	1.7983	27.6704	27.6592	91.66	0.21	1.34860
2073.957	2102	1.9437	31.315897	34.6044	1.7996	27.6704	27.6592	91.66	0.21	1.34710
2072.975	2101	1.9449	31.316624	34.6045	1.8009	27.6703	27.6592	91.58	0.21	1.34858
2071.994	2100	1.9453	31.316586	34.6046	1.8013	27.6704	27.6592	91.53	0.22	1.34711
2071.012	2099	1.9456	31.316299	34.6043	1.8017	27.6701	27.6590	91.52	0.22	1.34508
2070.030	2098	1.9460	31.316288	34.6044	1.8022	27.6702	27.6590	91.46	0.22	1.34380
2069.048	2097	1.9460	31.315975	34.6045	1.8023	27.6702	27.6591	91.44	0.22	1.34483
2068.066	2096	1.9465	31.316010	34.6045	1.8029	27.6702	27.6590	91.43	0.22	1.34813
2067.084	2095	1.9469	31.316019	34.6046	1.8033	27.6702	27.6591	91.40	0.23	1.34177
2066.103	2094	1.9473	31.316156	34.6047	1.8039	27.6703	27.6592	91.41	0.23	1.34475
2065.121	2093	1.9478	31.315937	34.6045	1.8044	27.6701	27.6590	91.38	0.23	1.34729
2064.139	2092	1.9481	31.315994	34.6047	1.8048	27.6702	27.6591	91.38	0.23	1.34666
2063.157	2091	1.9481	31.315523	34.6047	1.8048	27.6702	27.6591	91.34	0.23	1.34411
2062.175	2090	1.9480	31.315054	34.6047	1.8048	27.6702	27.6591	91.33	0.24	1.34506
2061.193	2089	1.9482	31.314840	34.6046	1.8052	27.6701	27.6590	91.33	0.24	1.34704
2060.211	2088	1.9484	31.314550	34.6045	1.8054	27.6700	27.6589	91.33	0.24	1.34375
2059.229	2087	1.9485	31.314339	34.6048	1.8055	27.6702	27.6591	91.33	0.25	1.34406
2058.248	2086	1.9489	31.314339	34.6048	1.8060	27.6702	27.6591	91.29	0.25	1.34242
2057.266	2085	1.9494	31.314394	34.6048	1.8067	27.6701	27.6590	91.27	0.24	1.34390
2056.284	2084	1.9492	31.313793	34.6048	1.8065	27.6701	27.6591	91.26	0.25	1.34392
2055.302	2083	1.9501	31.314222	34.6048	1.8076	27.6700	27.6590	91.22	0.25	1.34098
2054.320	2082	1.9506	31.314171	34.6047	1.8081	27.6699	27.6589	91.08	0.25	1.34706
2053.338	2081	1.9508	31.313986	34.6047	1.8084	27.6699	27.6589	90.86	0.29	1.35173
2052.356	2080	1.9548	31.316994	34.6047	1.8124	27.6696	27.6586	90.73	0.30	1.34712
2051.375	2079	1.9570	31.318666	34.6049	1.8146	27.6696	27.6585	90.64	0.31	1.34556
2050.393	2078	1.9584	31.319424	34.6048	1.8161	27.6695	27.6584	90.58	0.31	1.34528
2049.411	2077	1.9589	31.319557	34.6049	1.8167	27.6694	27.6584	90.48	0.32	1.34505
2048.429	2076	1.9593	31.319359	34.6047	1.8172	27.6693	27.6582	90.44	0.33	1.34493
2047.447	2075	1.9588	31.318462	34.6046	1.8168	27.6692	27.6582	90.45	0.34	1.34568
2046.465	2074	1.9588	31.317984	34.6045	1.8169	27.6691	27.6581	90.39	0.33	1.34788
2045.483	2073	1.9596	31.318270	34.6045	1.8177	27.6691	27.6580	90.37	0.34	1.35210
2044.501	2072	1.9616	31.319548	34.6045	1.8197	27.6689	27.6579	90.33	0.34	1.34543
2043.519	2071	1.9621	31.319843	34.6047	1.8204	27.6690	27.6580	90.32	0.34	1.34306
2042.537	2070	1.9633	31.320656	34.6051	1.8216	27.6692	27.6582	90.32	0.35	1.34191
2041.555	2069	1.9662	31.322884	34.6052	1.8245	27.6691	27.6580	90.30	0.37	1.34033
2040.573	2068	1.9877	31.341019	34.6049	1.8458	27.6672	27.6562	90.13	0.37	1.34074
2039.591	2067	2.0043	31.355095	34.6051	1.8622	27.6661	27.6550	89.99	0.37	1.34095
2038.609	2066	2.0104	31.360111	34.6052	1.8683	27.6657	27.6546	89.84	0.37	1.34062
2037.627	2065	2.0113	31.360468	34.6052	1.8693	27.6656	27.6545	89.75	0.37	1.34040

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
2036.645	2064	2.0119	31.360613	34.6052	1.8700	27.6656	27.6544	89.81	0.37	1.34467
2035.663	2063	2.0116	31.359943	34.6052	1.8697	27.6656	27.6545	89.88	0.37	1.34721
2034.681	2062	2.0027	31.351908	34.6052	1.8611	27.6663	27.6552	89.83	0.37	1.34860
2033.699	2061	2.0227	31.368959	34.6054	1.8808	27.6649	27.6537	89.74	0.38	1.34923
2032.717	2060	2.0298	31.374470	34.6051	1.8879	27.6641	27.6529	89.72	0.38	1.34780
2031.735	2059	2.0326	31.376635	34.6052	1.8907	27.6640	27.6529	89.69	0.38	1.34528
2030.753	2058	2.0355	31.378765	34.6052	1.8937	27.6638	27.6526	89.65	0.38	1.34439
2029.771	2057	2.0355	31.378384	34.6053	1.8937	27.6638	27.6527	89.63	0.38	1.34456
2028.789	2056	2.0406	31.382675	34.6055	1.8989	27.6636	27.6524	89.62	0.38	1.35146
2027.807	2055	2.0490	31.389267	34.6051	1.9073	27.6626	27.6515	89.60	0.38	1.35732
2026.825	2054	2.0347	31.376316	34.6050	1.8933	27.6636	27.6525	89.63	0.36	1.35650
2025.843	2053	2.0229	31.365585	34.6049	1.8817	27.6644	27.6533	89.75	0.35	1.35229
2024.861	2052	2.0141	31.357599	34.6050	1.8732	27.6652	27.6541	89.82	0.36	1.35107
2023.879	2051	2.0143	31.357355	34.6050	1.8734	27.6651	27.6541	89.76	0.36	1.35091
2022.897	2050	2.0135	31.356054	34.6047	1.8727	27.6650	27.6540	89.75	0.37	1.35075
2021.915	2049	2.0060	31.349113	34.6047	1.8654	27.6656	27.6546	89.76	0.36	1.35092
2020.933	2048	1.9945	31.338625	34.6045	1.8542	27.6663	27.6553	89.92	0.36	1.35539
2019.951	2047	1.9925	31.336542	34.6047	1.8522	27.6666	27.6556	89.91	0.36	1.35745
2018.969	2046	1.9897	31.333515	34.6044	1.8496	27.6665	27.6556	90.06	0.34	1.35513
2017.987	2045	1.9760	31.321350	34.6046	1.8362	27.6677	27.6568	90.19	0.35	1.35627
2017.005	2044	1.9792	31.323978	34.6049	1.8394	27.6677	27.6568	90.16	0.37	1.34980
2016.023	2043	2.0003	31.341654	34.6045	1.8603	27.6658	27.6549	89.97	0.37	1.34651
2015.041	2042	2.0076	31.347784	34.6048	1.8676	27.6654	27.6545	89.85	0.36	1.34756
2014.059	2041	2.0064	31.346249	34.6047	1.8664	27.6655	27.6545	89.88	0.36	1.34856
2013.077	2040	2.0046	31.344223	34.6046	1.8648	27.6655	27.6546	89.88	0.36	1.34886
2012.094	2039	1.9942	31.334896	34.6048	1.8546	27.6664	27.6555	90.03	0.35	1.34950
2011.112	2038	1.9925	31.332932	34.6047	1.8530	27.6665	27.6556	90.16	0.37	1.34953
2010.130	2037	1.9976	31.336855	34.6045	1.8581	27.6660	27.6551	90.01	0.39	1.34905
2009.148	2036	2.0008	31.339203	34.6045	1.8614	27.6657	27.6548	89.83	0.34	1.34884
2008.166	2035	1.9980	31.336744	34.6050	1.8587	27.6663	27.6554	89.74	0.36	1.34880
2007.184	2034	2.0106	31.347219	34.6049	1.8712	27.6652	27.6543	89.67	0.37	1.34799
2006.202	2033	2.0156	31.351128	34.6047	1.8763	27.6647	27.6538	89.79	0.37	1.34754
2005.220	2032	2.0165	31.351213	34.6044	1.8772	27.6644	27.6535	89.95	0.36	1.34730
2004.238	2031	2.0032	31.339657	34.6050	1.8641	27.6658	27.6550	90.36	0.35	1.34774
2003.255	2030	2.0019	31.337648	34.6044	1.8629	27.6655	27.6546	90.55	0.31	1.34761
2002.273	2029	1.9821	31.320019	34.6042	1.8436	27.6669	27.6561	90.65	0.30	1.34837
2001.291	2028	1.9716	31.310453	34.6042	1.8334	27.6676	27.6568	90.67	0.30	1.34868
2000.309	2027	1.9697	31.308020	34.6038	1.8315	27.6674	27.6567	90.67	0.31	1.34858
1999.327	2026	1.9688	31.306847	34.6038	1.8307	27.6675	27.6567	90.67	0.31	1.34842
1998.345	2025	1.9674	31.305145	34.6037	1.8294	27.6675	27.6568	90.66	0.31	1.34829
1997.363	2024	1.9670	31.304325	34.6036	1.8291	27.6674	27.6567	90.64	0.31	1.34811
1996.380	2023	1.9669	31.303860	34.6036	1.8291	27.6675	27.6568	90.62	0.31	1.34791
1995.398	2022	1.9667	31.303268	34.6036	1.8290	27.6675	27.6568	90.62	0.31	1.34626
1994.416	2021	1.9666	31.302828	34.6037	1.8289	27.6675	27.6568	90.62	0.30	1.33730

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1993.434	2020	1.9664	31.302170	34.6035	1.8289	27.6674	27.6567	90.62	0.30	1.33602
1992.452	2019	1.9665	31.301634	34.6033	1.8290	27.6672	27.6565	90.65	0.30	1.33500
1991.470	2018	1.9669	31.301582	34.6033	1.8296	27.6671	27.6565	90.68	0.30	1.33747
1990.487	2017	1.9676	31.301533	34.6030	1.8303	27.6669	27.6562	90.67	0.31	1.33851
1989.505	2016	1.9682	31.301695	34.6030	1.8310	27.6668	27.6562	90.66	0.33	1.33984
1988.523	2015	1.9694	31.302225	34.6029	1.8322	27.6666	27.6560	90.58	0.34	1.33927
1987.541	2014	1.9706	31.302942	34.6030	1.8335	27.6666	27.6560	90.44	0.35	1.33524
1986.559	2013	1.9722	31.303930	34.6030	1.8352	27.6665	27.6558	90.33	0.35	1.33214
1985.576	2012	1.9733	31.304520	34.6030	1.8363	27.6664	27.6558	90.31	0.35	1.32841
1984.594	2011	1.9740	31.304758	34.6031	1.8371	27.6664	27.6558	90.30	0.35	1.32760
1983.612	2010	1.9743	31.304583	34.6030	1.8375	27.6663	27.6557	90.29	0.34	1.33048
1982.630	2009	1.9742	31.304199	34.6031	1.8375	27.6664	27.6558	90.31	0.34	1.33196
1981.647	2008	1.9748	31.304161	34.6029	1.8382	27.6662	27.6556	90.27	0.34	1.33031
1980.665	2007	1.9771	31.305374	34.6025	1.8405	27.6657	27.6551	90.23	0.35	1.32412
1979.683	2006	1.9780	31.305702	34.6025	1.8414	27.6656	27.6549	90.22	0.35	1.32218
1978.701	2005	1.9792	31.306408	34.6024	1.8428	27.6655	27.6548	90.08	0.38	1.32697
1977.719	2004	1.9800	31.306631	34.6024	1.8436	27.6654	27.6548	89.94	0.39	1.32859
1976.736	2003	1.9807	31.306910	34.6025	1.8444	27.6654	27.6548	89.78	0.41	1.32466
1975.754	2002	1.9832	31.308371	34.6021	1.8469	27.6649	27.6542	89.71	0.39	1.32030
1974.772	2001	1.9838	31.308020	34.6015	1.8476	27.6643	27.6537	89.77	0.33	1.32035
1973.790	2000	1.9891	31.310770	34.5997	1.8529	27.6625	27.6519	90.04	0.32	1.32215
1972.807	1999	1.9912	31.311941	34.5994	1.8551	27.6621	27.6515	90.25	0.32	1.31775
1971.825	1998	1.9927	31.312748	34.5993	1.8566	27.6619	27.6513	90.38	0.32	1.30964
1970.843	1997	1.9903	31.309608	34.5985	1.8544	27.6614	27.6508	90.53	0.26	1.30913
1969.860	1996	1.9883	31.306637	34.5975	1.8525	27.6607	27.6501	90.77	0.23	1.31309
1968.878	1995	1.9868	31.304611	34.5971	1.8511	27.6605	27.6499	90.98	0.25	1.31530
1967.896	1994	1.9877	31.305145	34.5973	1.8520	27.6606	27.6500	91.22	0.29	1.30541
1966.914	1993	1.9880	31.304996	34.5973	1.8524	27.6606	27.6500	91.24	0.28	1.29940
1965.931	1992	1.9860	31.302679	34.5970	1.8506	27.6605	27.6500	91.36	0.24	1.30034
1964.949	1991	1.9831	31.299139	34.5963	1.8478	27.6601	27.6496	91.63	0.18	1.29527
1963.967	1990	1.9780	31.293356	34.5951	1.8429	27.6596	27.6490	91.84	0.15	1.28883
1962.984	1989	1.9768	31.291706	34.5948	1.8418	27.6594	27.6489	91.90	0.13	1.28443
1962.002	1988	1.9763	31.290533	34.5944	1.8413	27.6592	27.6487	91.94	0.14	1.28017
1961.020	1987	1.9764	31.290001	34.5941	1.8415	27.6589	27.6484	92.00	0.14	1.27788
1960.037	1986	1.9762	31.289404	34.5941	1.8414	27.6589	27.6484	92.07	0.14	1.27178
1959.055	1985	1.9760	31.288822	34.5942	1.8412	27.6590	27.6485	92.09	0.14	1.27067
1958.073	1984	1.9760	31.288412	34.5941	1.8414	27.6589	27.6484	92.09	0.14	1.26371
1957.090	1983	1.9762	31.288420	34.5944	1.8417	27.6591	27.6486	92.09	0.16	1.25793
1956.108	1982	1.9764	31.288452	34.5947	1.8419	27.6594	27.6489	91.83	0.15	1.25462
1955.126	1981	1.9760	31.287577	34.5946	1.8416	27.6593	27.6488	92.01	0.14	1.24912
1954.143	1980	1.9758	31.286745	34.5943	1.8415	27.6590	27.6486	92.08	0.14	1.24869
1953.161	1979	1.9757	31.286190	34.5942	1.8415	27.6589	27.6485	92.10	0.14	1.24520
1952.179	1978	1.9753	31.285429	34.5942	1.8412	27.6590	27.6485	92.13	0.13	1.24539
1951.196	1977	1.9748	31.284422	34.5939	1.8408	27.6588	27.6484	92.15	0.13	1.24501

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1950.214	1976	1.9746	31.283787	34.5938	1.8407	27.6587	27.6483	92.15	0.13	1.23995
1949.231	1975	1.9745	31.283321	34.5939	1.8406	27.6588	27.6484	92.13	0.13	1.24284
1948.249	1974	1.9743	31.282686	34.5938	1.8405	27.6587	27.6483	92.13	0.13	1.24647
1947.267	1973	1.9738	31.281836	34.5938	1.8401	27.6588	27.6484	92.13	0.12	1.24696
1946.284	1972	1.9730	31.280489	34.5936	1.8394	27.6586	27.6482	92.16	0.11	1.23875
1945.302	1971	1.9730	31.280102	34.5935	1.8395	27.6586	27.6482	92.20	0.13	1.23115
1944.319	1970	1.9737	31.280518	34.5938	1.8402	27.6588	27.6484	92.12	0.15	1.23354
1943.337	1969	1.9739	31.280458	34.5940	1.8405	27.6589	27.6485	92.07	0.14	1.23937
1942.355	1968	1.9739	31.279993	34.5939	1.8406	27.6588	27.6484	92.09	0.12	1.23957
1941.372	1967	1.9732	31.278885	34.5938	1.8400	27.6588	27.6484	92.16	0.12	1.23779
1940.390	1966	1.9731	31.278400	34.5938	1.8400	27.6587	27.6484	92.23	0.11	1.23187
1939.407	1965	1.9725	31.277439	34.5937	1.8395	27.6587	27.6484	92.25	0.11	1.22566
1938.425	1964	1.9721	31.276485	34.5935	1.8392	27.6586	27.6482	92.28	0.11	1.22667
1937.443	1963	1.9720	31.275839	34.5933	1.8391	27.6585	27.6481	92.31	0.11	1.23012
1936.460	1962	1.9718	31.275280	34.5933	1.8391	27.6584	27.6481	92.31	0.11	1.23224
1935.478	1961	1.9716	31.274715	34.5933	1.8390	27.6585	27.6481	92.32	0.11	1.23211
1934.495	1960	1.9717	31.274296	34.5932	1.8391	27.6584	27.6481	92.36	0.13	1.23192
1933.513	1959	1.9723	31.274403	34.5932	1.8398	27.6583	27.6480	92.27	0.15	1.23171
1932.530	1958	1.9740	31.276117	34.5940	1.8415	27.6588	27.6485	92.20	0.15	1.23144
1931.548	1957	1.9746	31.276218	34.5939	1.8423	27.6587	27.6484	92.51	0.08	1.23123
1930.565	1956	1.9708	31.271206	34.5923	1.8386	27.6577	27.6474	92.64	0.07	1.23123
1929.583	1955	1.9695	31.269209	34.5917	1.8374	27.6573	27.6470	92.67	0.06	1.23111
1928.600	1954	1.9692	31.268661	34.5919	1.8372	27.6574	27.6472	92.71	0.06	1.23093
1927.618	1953	1.9691	31.268024	34.5917	1.8372	27.6573	27.6471	92.72	0.06	1.23075
1926.635	1952	1.9689	31.267181	34.5914	1.8371	27.6571	27.6468	92.72	0.06	1.23058
1925.653	1951	1.9687	31.266636	34.5915	1.8369	27.6571	27.6469	92.72	0.06	1.23041
1924.670	1950	1.9686	31.266094	34.5914	1.8369	27.6571	27.6468	92.73	0.06	1.22912
1923.688	1949	1.9686	31.265783	34.5915	1.8370	27.6571	27.6469	92.77	0.06	1.21757
1922.705	1948	1.9687	31.265181	34.5912	1.8372	27.6569	27.6466	92.78	0.05	1.21451
1921.723	1947	1.9687	31.264631	34.5910	1.8372	27.6568	27.6465	92.82	0.05	1.21984
1920.740	1946	1.9685	31.264063	34.5910	1.8371	27.6568	27.6465	92.82	0.05	1.22148
1919.758	1945	1.9683	31.263617	34.5911	1.8371	27.6568	27.6466	92.82	0.06	1.21401
1918.775	1944	1.9686	31.263386	34.5910	1.8375	27.6567	27.6465	92.82	0.06	1.20808
1917.793	1943	1.9696	31.263769	34.5909	1.8385	27.6566	27.6464	92.82	0.07	1.21193
1916.810	1942	1.9735	31.266687	34.5909	1.8424	27.6562	27.6460	92.74	0.08	1.21115
1915.828	1941	1.9744	31.267166	34.5909	1.8434	27.6562	27.6460	92.69	0.08	1.20568
1914.845	1940	1.9746	31.266838	34.5908	1.8437	27.6561	27.6459	92.64	0.07	1.20884
1913.863	1939	1.9747	31.266605	34.5910	1.8438	27.6562	27.6460	92.63	0.07	1.21145
1912.880	1938	1.9744	31.265774	34.5907	1.8437	27.6560	27.6458	92.64	0.07	1.20994
1911.898	1937	1.9756	31.266396	34.5907	1.8449	27.6559	27.6457	92.62	0.09	1.20850
1910.915	1936	1.9766	31.266792	34.5906	1.8460	27.6558	27.6456	92.59	0.09	1.20561
1909.932	1935	1.9767	31.266529	34.5908	1.8461	27.6559	27.6457	92.58	0.10	1.20622
1908.950	1934	1.9780	31.267294	34.5907	1.8475	27.6557	27.6455	92.56	0.12	1.20492
1907.967	1933	1.9834	31.272078	34.5914	1.8529	27.6558	27.6456	92.51	0.17	1.19984

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1906.985	1932	1.9869	31.274914	34.5917	1.8564	27.6558	27.6456	92.27	0.21	1.19791
1906.002	1931	1.9908	31.278084	34.5918	1.8604	27.6556	27.6454	91.88	0.21	1.20203
1905.020	1930	1.9918	31.278490	34.5918	1.8614	27.6555	27.6453	91.77	0.21	1.20023
1904.037	1929	1.9921	31.278315	34.5917	1.8618	27.6554	27.6453	91.73	0.21	1.19553
1903.054	1928	1.9924	31.278273	34.5919	1.8621	27.6555	27.6454	91.71	0.22	1.19771
1902.072	1927	1.9927	31.278011	34.5917	1.8625	27.6554	27.6452	91.67	0.26	1.19927
1901.089	1926	1.9937	31.278406	34.5916	1.8636	27.6552	27.6451	91.55	0.24	1.20562
1900.107	1925	1.9945	31.278582	34.5915	1.8645	27.6550	27.6449	91.51	0.24	1.20930
1899.124	1924	1.9948	31.278416	34.5915	1.8648	27.6550	27.6449	91.48	0.25	1.20810
1898.141	1923	1.9951	31.278242	34.5914	1.8653	27.6549	27.6447	91.43	0.26	1.20768
1897.159	1922	1.9951	31.277956	34.5915	1.8654	27.6550	27.6448	91.43	0.26	1.20640
1896.176	1921	1.9946	31.276999	34.5914	1.8649	27.6549	27.6448	91.46	0.25	1.20462
1895.194	1920	1.9941	31.276037	34.5912	1.8645	27.6548	27.6447	91.50	0.25	1.20448
1894.211	1919	1.9950	31.276396	34.5913	1.8655	27.6548	27.6446	91.53	0.26	1.20437
1893.228	1918	1.9951	31.276087	34.5912	1.8657	27.6547	27.6446	91.49	0.26	1.20596
1892.246	1917	1.9952	31.275724	34.5912	1.8659	27.6547	27.6445	91.46	0.26	1.20504
1891.263	1916	1.9954	31.275417	34.5910	1.8662	27.6545	27.6444	91.44	0.27	1.20378
1890.280	1915	1.9955	31.274994	34.5909	1.8663	27.6544	27.6443	91.43	0.27	1.20293
1889.298	1914	1.9952	31.274355	34.5910	1.8661	27.6545	27.6444	91.42	0.27	1.20267
1888.315	1913	1.9957	31.274359	34.5910	1.8667	27.6544	27.6444	91.38	0.28	1.20293
1887.332	1912	1.9960	31.274420	34.5912	1.8671	27.6546	27.6445	91.34	0.28	1.20317
1886.350	1911	1.9963	31.274246	34.5912	1.8674	27.6545	27.6445	91.32	0.28	1.20303
1885.367	1910	1.9966	31.273888	34.5909	1.8678	27.6543	27.6442	91.31	0.29	1.20436
1884.384	1909	1.9966	31.273491	34.5910	1.8678	27.6543	27.6443	91.29	0.28	1.20314
1883.402	1908	1.9970	31.273230	34.5907	1.8683	27.6541	27.6440	91.29	0.27	1.20192
1882.419	1907	1.9972	31.272926	34.5906	1.8686	27.6540	27.6439	91.34	0.26	1.20171
1881.436	1906	1.9970	31.272156	34.5904	1.8685	27.6538	27.6438	91.38	0.26	1.20211
1880.454	1905	1.9972	31.271812	34.5902	1.8688	27.6537	27.6437	91.41	0.25	1.20237
1879.471	1904	1.9968	31.271103	34.5903	1.8685	27.6537	27.6437	91.41	0.24	1.20169
1878.488	1903	1.9965	31.270380	34.5902	1.8683	27.6537	27.6436	91.42	0.27	1.20120
1877.505	1902	1.9983	31.271706	34.5904	1.8701	27.6537	27.6437	91.37	0.30	1.20280
1876.523	1901	1.9998	31.272680	34.5905	1.8717	27.6537	27.6436	91.22	0.31	1.20190
1875.540	1900	2.0016	31.274002	34.5906	1.8736	27.6536	27.6436	91.12	0.33	1.20009
1874.557	1899	2.0025	31.274338	34.5907	1.8745	27.6536	27.6436	91.01	0.34	1.19974
1873.575	1898	2.0026	31.274126	34.5907	1.8747	27.6536	27.6436	90.97	0.34	1.19626
1872.592	1897	2.0030	31.273932	34.5906	1.8752	27.6534	27.6434	90.95	0.35	1.19188
1871.609	1896	2.0030	31.273645	34.5907	1.8753	27.6535	27.6435	90.93	0.35	1.19879
1870.626	1895	2.0038	31.273846	34.5907	1.8761	27.6535	27.6435	90.94	0.37	1.19478
1869.644	1894	2.0053	31.274971	34.5909	1.8777	27.6535	27.6435	90.88	0.39	1.19269
1868.661	1893	2.0061	31.275274	34.5910	1.8785	27.6535	27.6435	90.76	0.39	1.19641
1867.678	1892	2.0058	31.274502	34.5908	1.8783	27.6534	27.6434	90.81	0.36	1.19395
1866.695	1891	2.0058	31.273970	34.5906	1.8785	27.6532	27.6433	90.92	0.35	1.19579
1865.713	1890	2.0036	31.271341	34.5903	1.8763	27.6531	27.6432	90.97	0.33	1.19882
1864.730	1889	2.0016	31.268906	34.5899	1.8744	27.6530	27.6430	91.00	0.34	1.19669

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1863.747	1888	2.0010	31.267788	34.5897	1.8739	27.6528	27.6429	91.03	0.33	1.19663
1862.764	1887	2.0006	31.267054	34.5896	1.8737	27.6528	27.6429	91.03	0.33	1.20118
1861.781	1886	2.0008	31.266773	34.5896	1.8739	27.6528	27.6429	91.03	0.33	1.20332
1860.799	1885	2.0009	31.266592	34.5898	1.8741	27.6529	27.6430	91.03	0.34	1.20120
1859.816	1884	2.0008	31.266136	34.5898	1.8741	27.6529	27.6430	91.06	0.32	1.19807
1858.833	1883	1.9998	31.264559	34.5894	1.8732	27.6527	27.6428	91.11	0.30	1.19761
1857.850	1882	1.9994	31.263655	34.5893	1.8729	27.6526	27.6427	91.13	0.31	1.19495
1856.868	1881	1.9996	31.263391	34.5892	1.8732	27.6525	27.6426	91.13	0.31	1.19149
1855.885	1880	1.9996	31.262989	34.5892	1.8732	27.6525	27.6426	91.13	0.30	1.18838
1854.902	1879	1.9996	31.262438	34.5891	1.8733	27.6524	27.6425	91.16	0.30	1.18705
1853.919	1878	1.9989	31.261545	34.5892	1.8727	27.6526	27.6427	91.18	0.29	1.19039
1852.936	1877	1.9987	31.260855	34.5891	1.8726	27.6525	27.6426	91.25	0.29	1.19069
1851.953	1876	1.9993	31.260828	34.5889	1.8733	27.6522	27.6424	91.26	0.30	1.19049
1850.971	1875	2.0012	31.262150	34.5890	1.8752	27.6522	27.6423	91.14	0.33	1.19023
1849.988	1874	2.0026	31.262993	34.5891	1.8766	27.6521	27.6423	90.97	0.32	1.18999
1849.005	1873	2.0026	31.262573	34.5890	1.8768	27.6521	27.6422	90.95	0.34	1.18981
1848.022	1872	2.0040	31.263411	34.5891	1.8782	27.6520	27.6422	90.97	0.34	1.18957
1847.039	1871	2.0053	31.264202	34.5891	1.8795	27.6520	27.6421	90.91	0.33	1.18773
1846.056	1870	2.0068	31.264559	34.5885	1.8811	27.6513	27.6415	90.94	0.29	1.18748
1845.073	1869	2.0075	31.264133	34.5876	1.8819	27.6506	27.6407	91.04	0.29	1.18484
1844.091	1868	2.0084	31.264242	34.5873	1.8829	27.6502	27.6404	91.15	0.27	1.18602
1843.108	1867	2.0080	31.262800	34.5865	1.8826	27.6496	27.6398	91.43	0.20	1.18016
1842.125	1866	2.0060	31.259367	34.5849	1.8807	27.6485	27.6386	91.79	0.17	1.17763
1841.142	1865	2.0040	31.256216	34.5837	1.8788	27.6476	27.6378	92.16	0.14	1.18054
1840.159	1864	2.0028	31.254242	34.5830	1.8777	27.6472	27.6374	92.31	0.12	1.18069
1839.176	1863	2.0025	31.253424	34.5828	1.8775	27.6470	27.6372	92.43	0.11	1.18169
1838.193	1862	2.0022	31.252531	34.5826	1.8773	27.6469	27.6371	92.55	0.11	1.17858
1837.210	1861	2.0021	31.251724	34.5822	1.8773	27.6466	27.6368	92.65	0.08	1.17290
1836.228	1860	2.0041	31.252356	34.5813	1.8793	27.6457	27.6360	92.77	0.06	1.16657
1835.245	1859	2.0057	31.252991	34.5808	1.8810	27.6452	27.6354	92.89	0.04	1.16113
1834.262	1858	2.0067	31.253134	34.5805	1.8820	27.6448	27.6351	92.93	0.04	1.15361
1833.279	1857	2.0072	31.253098	34.5803	1.8827	27.6447	27.6349	92.95	0.04	1.14142
1832.296	1856	2.0086	31.253773	34.5803	1.8841	27.6445	27.6347	92.98	0.03	1.13481
1831.313	1855	2.0149	31.258051	34.5792	1.8904	27.6432	27.6334	93.02	0.03	1.13182
1830.330	1854	2.0203	31.261255	34.5779	1.8958	27.6417	27.6319	93.07	0.03	1.12647
1829.347	1853	2.0223	31.262325	34.5776	1.8979	27.6413	27.6315	93.10	0.03	1.12267
1828.364	1852	2.0257	31.264488	34.5771	1.9013	27.6406	27.6308	93.11	0.03	1.11941
1827.381	1851	2.0288	31.266361	34.5766	1.9044	27.6400	27.6302	93.11	0.02	1.11441
1826.398	1850	2.0308	31.267502	34.5764	1.9065	27.6397	27.6299	93.12	0.02	1.11573
1825.415	1849	2.0322	31.268002	34.5760	1.9080	27.6392	27.6294	93.13	0.02	1.11194
1824.432	1848	2.0332	31.268370	34.5759	1.9090	27.6390	27.6293	93.13	0.02	1.10779
1823.449	1847	2.0362	31.270164	34.5754	1.9120	27.6384	27.6286	93.13	0.02	1.10048
1822.466	1846	2.0410	31.273243	34.5746	1.9168	27.6374	27.6276	93.13	0.02	1.09144
1821.484	1845	2.0423	31.273787	34.5743	1.9182	27.6371	27.6273	93.13	0.02	1.08540

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1820.500	1844	2.0420	31.273226	34.5745	1.9180	27.6372	27.6275	93.13	0.02	1.08134
1819.518	1843	2.0424	31.273125	34.5743	1.9185	27.6371	27.6273	93.13	0.02	1.07486
1818.535	1842	2.0428	31.272984	34.5743	1.9190	27.6370	27.6272	93.13	0.02	1.06967
1817.552	1841	2.0427	31.272623	34.5744	1.9190	27.6371	27.6273	93.13	0.02	1.06603
1816.569	1840	2.0426	31.272100	34.5744	1.9190	27.6371	27.6273	93.13	0.02	1.05981
1815.586	1839	2.0426	31.271654	34.5743	1.9191	27.6370	27.6273	93.13	0.02	1.05929
1814.603	1838	2.0425	31.271160	34.5743	1.9191	27.6370	27.6273	93.13	0.02	1.05647
1813.620	1837	2.0442	31.271967	34.5740	1.9208	27.6366	27.6269	93.13	0.02	1.05190
1812.637	1836	2.0467	31.273361	34.5736	1.9233	27.6361	27.6264	93.13	0.02	1.05180
1811.654	1835	2.0485	31.274319	34.5733	1.9252	27.6357	27.6260	93.14	0.02	1.05029
1810.671	1834	2.0505	31.275331	34.5730	1.9272	27.6353	27.6256	93.15	0.02	1.04545
1809.688	1833	2.0515	31.275745	34.5729	1.9283	27.6352	27.6255	93.16	0.02	1.04853
1808.704	1832	2.0521	31.275677	34.5727	1.9290	27.6349	27.6252	93.16	0.02	1.04677
1807.721	1831	2.0527	31.275829	34.5726	1.9297	27.6348	27.6251	93.17	0.02	1.03966
1806.738	1830	2.0544	31.276705	34.5725	1.9314	27.6346	27.6249	93.16	0.02	1.03820
1805.755	1829	2.0568	31.277994	34.5720	1.9338	27.6340	27.6243	93.17	0.02	1.04171
1804.772	1828	2.0575	31.278160	34.5719	1.9346	27.6339	27.6242	93.16	0.02	1.04537
1803.789	1827	2.0583	31.278336	34.5718	1.9355	27.6337	27.6240	93.15	0.02	1.04295
1802.806	1826	2.0589	31.278265	34.5716	1.9361	27.6335	27.6238	93.16	0.02	1.03268
1801.823	1825	2.0591	31.278135	34.5717	1.9365	27.6335	27.6239	93.17	0.02	1.03194
1800.840	1824	2.0621	31.279835	34.5711	1.9395	27.6328	27.6232	93.18	0.02	1.02956
1799.857	1823	2.0637	31.280622	34.5708	1.9412	27.6325	27.6228	93.18	0.02	1.02630
1798.874	1822	2.0648	31.281019	34.5706	1.9423	27.6322	27.6226	93.18	0.02	1.02860
1797.891	1821	2.0652	31.280867	34.5705	1.9428	27.6321	27.6224	93.18	0.02	1.02522
1796.908	1820	2.0654	31.280701	34.5706	1.9430	27.6322	27.6225	93.18	0.02	1.01749
1795.925	1819	2.0662	31.280745	34.5703	1.9439	27.6319	27.6222	93.18	0.02	1.01764
1794.942	1818	2.0666	31.280590	34.5702	1.9444	27.6317	27.6221	93.18	0.02	1.02107
1793.958	1817	2.0667	31.280313	34.5703	1.9446	27.6318	27.6221	93.18	0.02	1.01042
1792.975	1816	2.0669	31.280081	34.5702	1.9449	27.6317	27.6221	93.18	0.02	1.01335
1791.992	1815	2.0679	31.280457	34.5701	1.9459	27.6316	27.6219	93.19	0.02	1.00688
1791.009	1814	2.0686	31.280476	34.5699	1.9467	27.6313	27.6217	93.18	0.02	0.99831
1790.026	1813	2.0686	31.280054	34.5699	1.9468	27.6313	27.6216	93.18	0.02	0.99508
1789.043	1812	2.0687	31.279861	34.5700	1.9470	27.6314	27.6218	93.18	0.02	0.99617
1788.060	1811	2.0690	31.279461	34.5698	1.9473	27.6311	27.6215	93.18	0.02	0.99971
1787.077	1810	2.0697	31.279737	34.5698	1.9481	27.6312	27.6215	93.18	0.02	1.00332
1786.094	1809	2.0733	31.281885	34.5692	1.9517	27.6303	27.6207	93.19	0.03	1.00451
1785.110	1808	2.0734	31.281607	34.5692	1.9519	27.6303	27.6207	93.19	0.02	1.00433
1784.127	1807	2.0737	31.281448	34.5692	1.9523	27.6303	27.6207	93.19	0.02	0.99897
1783.144	1806	2.0796	31.285456	34.5683	1.9582	27.6291	27.6195	93.19	0.02	0.99691
1782.161	1805	2.0821	31.287001	34.5680	1.9608	27.6287	27.6190	93.19	0.02	0.99232
1781.178	1804	2.0832	31.287350	34.5678	1.9619	27.6285	27.6188	93.19	0.02	0.99164
1780.195	1803	2.0844	31.287910	34.5677	1.9632	27.6283	27.6186	93.19	0.02	0.99539
1779.211	1802	2.0889	31.290771	34.5669	1.9677	27.6272	27.6176	93.19	0.02	0.99616
1778.228	1801	2.0895	31.290989	34.5670	1.9684	27.6273	27.6177	93.19	0.02	0.98627

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m ³]	[kg/m ³]			[ml/l]
1777.245	1800	2.0902	31.291040	34.5668	1.9692	27.6271	27.6175	93.19	0.02	0.98142
1776.262	1799	2.0908	31.291191	34.5669	1.9698	27.6271	27.6175	93.19	0.02	0.98573
1775.279	1798	2.0918	31.291424	34.5666	1.9709	27.6268	27.6172	93.19	0.02	0.98383
1774.296	1797	2.0925	31.291481	34.5664	1.9716	27.6266	27.6170	93.19	0.02	0.97634
1773.312	1796	2.0933	31.291763	34.5665	1.9725	27.6265	27.6169	93.18	0.02	0.97241
1772.329	1795	2.0951	31.292656	34.5661	1.9744	27.6261	27.6165	93.19	0.02	0.97474
1771.346	1794	2.0968	31.293461	34.5658	1.9762	27.6257	27.6161	93.19	0.02	0.96971
1770.363	1793	2.0992	31.294815	34.5654	1.9786	27.6252	27.6156	93.19	0.02	0.96359
1769.380	1792	2.1016	31.296242	34.5650	1.9811	27.6247	27.6151	93.19	0.03	0.96093
1768.396	1791	2.1048	31.298471	34.5649	1.9843	27.6243	27.6147	93.20	0.02	0.96713
1767.413	1790	2.1095	31.301336	34.5639	1.9890	27.6232	27.6136	93.19	0.02	0.96661
1766.430	1789	2.1109	31.302017	34.5637	1.9905	27.6229	27.6133	93.19	0.02	0.96055
1765.447	1788	2.1118	31.302284	34.5636	1.9915	27.6227	27.6131	93.19	0.02	0.95433
1764.463	1787	2.1129	31.302685	34.5634	1.9926	27.6225	27.6129	93.19	0.02	0.95477
1763.480	1786	2.1136	31.302845	34.5633	1.9934	27.6224	27.6128	93.19	0.02	0.95884
1762.497	1785	2.1139	31.302570	34.5632	1.9938	27.6222	27.6127	93.21	0.02	0.95465
1761.514	1784	2.1139	31.302183	34.5632	1.9939	27.6222	27.6127	93.20	0.02	0.94701
1760.530	1783	2.1140	31.301849	34.5632	1.9941	27.6222	27.6126	93.20	0.02	0.94648
1759.547	1782	2.1144	31.301620	34.5630	1.9945	27.6220	27.6124	93.19	0.02	0.94153
1758.564	1781	2.1149	31.301556	34.5629	1.9951	27.6219	27.6123	93.20	0.02	0.93888
1757.581	1780	2.1154	31.301508	34.5628	1.9956	27.6218	27.6123	93.22	0.02	0.93458
1756.597	1779	2.1170	31.302223	34.5624	1.9973	27.6214	27.6118	93.22	0.02	0.93339
1755.614	1778	2.1181	31.302643	34.5623	1.9985	27.6211	27.6116	93.21	0.02	0.92907
1754.631	1777	2.1200	31.303705	34.5620	2.0005	27.6208	27.6113	93.21	0.02	0.92709
1753.648	1776	2.1213	31.304308	34.5619	2.0018	27.6206	27.6110	93.20	0.02	0.93268
1752.664	1775	2.1235	31.305458	34.5615	2.0040	27.6201	27.6106	93.20	0.02	0.93412
1751.681	1774	2.1268	31.307322	34.5608	2.0074	27.6192	27.6097	93.21	0.02	0.92585
1750.698	1773	2.1288	31.308472	34.5606	2.0094	27.6189	27.6094	93.20	0.02	0.91922
1749.714	1772	2.1316	31.310175	34.5601	2.0123	27.6183	27.6088	93.20	0.02	0.92153
1748.731	1771	2.1335	31.311174	34.5598	2.0142	27.6179	27.6084	93.20	0.02	0.92449
1747.748	1770	2.1350	31.311840	34.5596	2.0158	27.6176	27.6081	93.20	0.02	0.92012
1746.764	1769	2.1366	31.312546	34.5592	2.0174	27.6172	27.6077	93.20	0.01	0.91858
1745.781	1768	2.1370	31.312479	34.5592	2.0180	27.6171	27.6076	93.20	0.02	0.91647
1744.798	1767	2.1373	31.312376	34.5593	2.0183	27.6172	27.6077	93.19	0.02	0.91519
1743.814	1766	2.1391	31.313231	34.5588	2.0202	27.6167	27.6072	93.20	0.02	0.90674
1742.831	1765	2.1421	31.315138	34.5585	2.0233	27.6161	27.6066	93.19	0.02	0.90489
1741.848	1764	2.1451	31.317059	34.5582	2.0263	27.6157	27.6061	93.21	0.02	0.90106
1740.864	1763	2.1481	31.318781	34.5576	2.0293	27.6150	27.6054	93.20	0.02	0.89848
1739.881	1762	2.1524	31.321688	34.5571	2.0336	27.6142	27.6047	93.19	0.02	0.89907
1738.898	1761	2.1550	31.323336	34.5569	2.0362	27.6138	27.6043	93.19	0.02	0.89519
1737.914	1760	2.1568	31.324282	34.5565	2.0382	27.6134	27.6039	93.20	0.02	0.89243
1736.931	1759	2.1571	31.324127	34.5565	2.0385	27.6134	27.6039	93.19	0.01	0.88903
1735.948	1758	2.1592	31.325306	34.5562	2.0407	27.6130	27.6035	93.19	0.02	0.88462
1734.964	1757	2.1613	31.326393	34.5559	2.0428	27.6125	27.6030	93.19	0.02	0.87844

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1733.981	1756	2.1621	31.326595	34.5557	2.0437	27.6123	27.6028	93.19	0.02	0.87786
1732.997	1755	2.1632	31.327015	34.5556	2.0448	27.6121	27.6026	93.20	0.02	0.87340
1732.014	1754	2.1640	31.327215	34.5555	2.0457	27.6119	27.6024	93.19	0.01	0.87150
1731.031	1753	2.1647	31.327330	34.5554	2.0465	27.6118	27.6023	93.19	0.01	0.87101
1730.047	1752	2.1680	31.329439	34.5549	2.0499	27.6112	27.6017	93.19	0.02	0.86787
1729.064	1751	2.1700	31.330437	34.5546	2.0519	27.6107	27.6012	93.19	0.02	0.86395
1728.081	1750	2.1708	31.330679	34.5545	2.0528	27.6106	27.6011	93.19	0.01	0.86285
1727.097	1749	2.1716	31.330799	34.5543	2.0536	27.6104	27.6009	93.19	0.02	0.86213
1726.114	1748	2.1716	31.330347	34.5542	2.0537	27.6103	27.6008	93.19	0.01	0.86056
1725.130	1747	2.1718	31.330017	34.5542	2.0539	27.6102	27.6008	93.19	0.02	0.85333
1724.147	1746	2.1721	31.329922	34.5541	2.0544	27.6102	27.6007	93.19	0.01	0.85204
1723.163	1745	2.1731	31.330307	34.5541	2.0554	27.6101	27.6006	93.19	0.02	0.85465
1722.180	1744	2.1739	31.330439	34.5539	2.0563	27.6098	27.6003	93.19	0.01	0.84788
1721.197	1743	2.1746	31.330561	34.5538	2.0571	27.6097	27.6002	93.19	0.03	0.84518
1720.213	1742	2.1755	31.330862	34.5537	2.0581	27.6095	27.6001	93.19	0.02	0.84842
1719.230	1741	2.1763	31.331099	34.5536	2.0590	27.6094	27.6000	93.19	0.01	0.85184
1718.246	1740	2.1792	31.332869	34.5533	2.0618	27.6089	27.5995	92.36	0.02	0.84541
1717.263	1739	2.1810	31.333836	34.5529	2.0638	27.6085	27.5990	92.81	0.02	0.84248
1716.279	1738	2.1816	31.333849	34.5528	2.0644	27.6083	27.5989	92.66	0.02	0.84107
1715.296	1737	2.1815	31.333326	34.5528	2.0644	27.6083	27.5989	93.19	0.01	0.84436
1714.312	1736	2.1818	31.333096	34.5527	2.0648	27.6082	27.5988	93.19	0.02	0.84272
1713.329	1735	2.1818	31.332773	34.5529	2.0648	27.6083	27.5989	93.20	0.02	0.83244
1712.345	1734	2.1824	31.332775	34.5527	2.0655	27.6082	27.5988	93.19	0.02	0.83195
1711.362	1733	2.1828	31.332735	34.5527	2.0660	27.6081	27.5987	93.19	0.01	0.83691
1710.378	1732	2.1827	31.332081	34.5525	2.0660	27.6080	27.5986	93.20	0.01	0.83754
1709.395	1731	2.1825	31.331516	34.5526	2.0658	27.6080	27.5986	93.20	0.02	0.82873
1708.411	1730	2.1831	31.331627	34.5525	2.0666	27.6079	27.5985	93.19	0.02	0.82547
1707.428	1729	2.1843	31.332268	34.5525	2.0678	27.6078	27.5984	93.20	0.02	0.82984
1706.444	1728	2.1856	31.332638	34.5521	2.0692	27.6074	27.5980	93.19	0.01	0.83192
1705.461	1727	2.1859	31.332529	34.5522	2.0695	27.6074	27.5980	93.18	0.01	0.83216
1704.477	1726	2.1871	31.332916	34.5519	2.0708	27.6071	27.5977	93.20	0.02	0.83200
1703.494	1725	2.1875	31.332964	34.5520	2.0712	27.6072	27.5978	93.19	0.02	0.83186
1702.510	1724	2.1875	31.332533	34.5520	2.0714	27.6071	27.5977	93.19	0.02	0.83059
1701.527	1723	2.1877	31.332129	34.5518	2.0716	27.6069	27.5976	93.18	0.01	0.82793
1700.543	1722	2.1882	31.332247	34.5518	2.0723	27.6069	27.5976	93.18	0.02	0.82546
1699.560	1721	2.1886	31.332138	34.5518	2.0727	27.6069	27.5975	93.18	0.02	0.81984
1698.576	1720	2.1892	31.332142	34.5517	2.0734	27.6067	27.5974	93.19	0.02	0.82221
1697.593	1719	2.1899	31.332321	34.5516	2.0742	27.6066	27.5973	93.19	0.02	0.82486
1696.609	1718	2.1903	31.332190	34.5516	2.0746	27.6066	27.5972	93.19	0.02	0.82462
1695.626	1717	2.1909	31.332212	34.5515	2.0753	27.6064	27.5970	93.20	0.02	0.82447
1694.642	1716	2.1912	31.332033	34.5514	2.0757	27.6063	27.5970	93.20	0.02	0.82383
1693.659	1715	2.1920	31.332199	34.5513	2.0765	27.6061	27.5968	93.19	0.01	0.81730
1692.675	1714	2.1934	31.332939	34.5512	2.0780	27.6059	27.5966	93.19	0.01	0.81634
1691.691	1713	2.1942	31.333075	34.5510	2.0788	27.6058	27.5964	93.19	0.01	0.81446

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1690.708	1712	2.1947	31.332996	34.5508	2.0795	27.6055	27.5962	93.19	0.01	0.81330
1689.724	1711	2.1956	31.333300	34.5508	2.0804	27.6055	27.5962	93.19	0.01	0.81601
1688.741	1710	2.1962	31.333420	34.5508	2.0811	27.6054	27.5961	93.19	0.02	0.81710
1687.757	1709	2.1971	31.333725	34.5507	2.0820	27.6052	27.5960	93.19	0.02	0.81577
1686.773	1708	2.1978	31.333820	34.5506	2.0828	27.6050	27.5958	93.19	0.01	0.81311
1685.790	1707	2.1991	31.334303	34.5504	2.0841	27.6048	27.5955	93.19	0.02	0.81039
1684.806	1706	2.1996	31.334284	34.5503	2.0847	27.6047	27.5954	93.19	0.02	0.81220
1683.823	1705	2.2008	31.334850	34.5502	2.0860	27.6045	27.5952	93.19	0.02	0.81154
1682.839	1704	2.2028	31.335846	34.5498	2.0881	27.6040	27.5947	93.18	0.02	0.81272
1681.855	1703	2.2032	31.335657	34.5496	2.0885	27.6038	27.5946	93.17	0.01	0.81054
1680.872	1702	2.2043	31.336100	34.5494	2.0898	27.6036	27.5943	93.17	0.02	0.80778
1679.888	1701	2.2058	31.336895	34.5494	2.0913	27.6034	27.5942	93.19	0.02	0.80641
1678.905	1700	2.2087	31.338797	34.5491	2.0943	27.6029	27.5937	93.19	0.02	0.80527
1677.921	1699	2.2103	31.339582	34.5489	2.0958	27.6027	27.5934	93.19	0.02	0.80098
1676.937	1698	2.2115	31.340057	34.5487	2.0971	27.6024	27.5931	93.19	0.02	0.79723
1675.954	1697	2.2127	31.340496	34.5484	2.0984	27.6021	27.5928	93.19	0.02	0.79831
1674.970	1696	2.2138	31.340990	34.5484	2.0996	27.6019	27.5927	93.19	0.01	0.80004
1673.986	1695	2.2146	31.341003	34.5480	2.1004	27.6016	27.5924	93.18	0.01	0.80216
1673.003	1694	2.2153	31.341150	34.5479	2.1012	27.6015	27.5922	93.19	0.01	0.79879
1672.019	1693	2.2160	31.341185	34.5477	2.1020	27.6012	27.5920	93.19	0.02	0.78918
1671.035	1692	2.2163	31.341036	34.5477	2.1024	27.6012	27.5920	93.19	0.02	0.78842
1670.052	1691	2.2165	31.340796	34.5477	2.1027	27.6012	27.5920	93.19	0.01	0.79354
1669.068	1690	2.2178	31.341335	34.5476	2.1040	27.6009	27.5917	93.19	0.02	0.79399
1668.084	1689	2.2185	31.341450	34.5474	2.1048	27.6008	27.5915	93.19	0.01	0.79006
1667.101	1688	2.2200	31.342180	34.5473	2.1063	27.6005	27.5913	93.18	0.01	0.78369
1666.117	1687	2.2206	31.342258	34.5472	2.1070	27.6004	27.5912	93.19	0.02	0.78269
1665.133	1686	2.2205	31.341808	34.5472	2.1070	27.6004	27.5912	93.19	0.02	0.78528
1664.150	1685	2.2202	31.341072	34.5472	2.1068	27.6004	27.5912	93.19	0.02	0.78844
1663.166	1684	2.2208	31.341003	34.5470	2.1074	27.6002	27.5910	93.19	0.02	0.78794
1662.182	1683	2.2226	31.342093	34.5468	2.1094	27.5999	27.5907	93.19	0.02	0.77591
1661.198	1682	2.2237	31.342710	34.5469	2.1105	27.5999	27.5907	93.19	0.01	0.77371
1660.215	1681	2.2247	31.343039	34.5468	2.1115	27.5997	27.5906	93.19	0.01	0.77940
1659.231	1680	2.2276	31.344786	34.5464	2.1145	27.5992	27.5900	93.18	0.02	0.78150
1658.247	1679	2.2294	31.345743	34.5461	2.1164	27.5988	27.5896	93.18	0.02	0.78098
1657.263	1678	2.2300	31.345816	34.5460	2.1171	27.5987	27.5895	93.19	0.02	0.77774
1656.280	1677	2.2306	31.345839	34.5460	2.1177	27.5986	27.5894	93.19	0.02	0.77714
1655.296	1676	2.2347	31.348568	34.5454	2.1218	27.5978	27.5887	93.19	0.02	0.77414
1654.312	1675	2.2374	31.350246	34.5451	2.1246	27.5973	27.5881	93.17	0.02	0.77070
1653.328	1674	2.2385	31.350679	34.5449	2.1258	27.5971	27.5879	93.18	0.02	0.77072
1652.345	1673	2.2394	31.350853	34.5447	2.1267	27.5968	27.5877	93.18	0.02	0.77328
1651.361	1672	2.2406	31.351440	34.5446	2.1280	27.5967	27.5875	93.19	0.02	0.76641
1650.377	1671	2.2417	31.351963	34.5446	2.1292	27.5965	27.5874	93.18	0.02	0.75911
1649.393	1670	2.2423	31.351912	34.5444	2.1299	27.5963	27.5872	93.18	0.02	0.76154
1648.410	1669	2.2426	31.351824	34.5444	2.1302	27.5963	27.5872	93.18	0.02	0.76596

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m ³]	[kg/m ³]			[ml/l]
1647.426	1668	2.2428	31.351604	34.5445	2.1305	27.5964	27.5873	93.18	0.02	0.75936
1646.442	1667	2.2427	31.351139	34.5445	2.1305	27.5964	27.5872	93.18	0.02	0.75326
1645.458	1666	2.2430	31.350960	34.5445	2.1308	27.5963	27.5872	93.18	0.01	0.75339
1644.474	1665	2.2446	31.351498	34.5440	2.1325	27.5958	27.5867	93.18	0.01	0.75808
1643.491	1664	2.2471	31.353062	34.5438	2.1350	27.5954	27.5863	93.18	0.01	0.75752
1642.507	1663	2.2510	31.355675	34.5433	2.1389	27.5947	27.5856	93.20	0.01	0.75639
1641.523	1662	2.2532	31.356831	34.5429	2.1412	27.5942	27.5851	93.19	0.02	0.75717
1640.539	1661	2.2545	31.357431	34.5427	2.1426	27.5939	27.5848	93.19	0.02	0.75223
1639.555	1660	2.2554	31.357746	34.5426	2.1435	27.5938	27.5847	93.19	0.02	0.74909
1638.572	1659	2.2567	31.358253	34.5424	2.1449	27.5935	27.5844	93.19	0.02	0.75186
1637.588	1658	2.2574	31.358440	34.5423	2.1457	27.5934	27.5843	93.18	0.02	0.74376
1636.604	1657	2.2579	31.358509	34.5424	2.1463	27.5934	27.5843	93.19	0.02	0.73860
1635.620	1656	2.2604	31.359888	34.5420	2.1488	27.5929	27.5838	93.19	0.01	0.74226
1634.636	1655	2.2619	31.360693	34.5419	2.1504	27.5926	27.5836	93.19	0.02	0.74651
1633.652	1654	2.2630	31.361095	34.5416	2.1516	27.5924	27.5833	93.19	0.02	0.73722
1632.669	1653	2.2643	31.361578	34.5414	2.1529	27.5921	27.5830	93.18	0.01	0.73164
1631.685	1652	2.2659	31.362484	34.5413	2.1546	27.5918	27.5827	93.19	0.01	0.73447
1630.701	1651	2.2674	31.363167	34.5410	2.1562	27.5915	27.5824	93.19	0.01	0.73990
1629.717	1650	2.2689	31.363823	34.5407	2.1577	27.5911	27.5821	93.19	0.02	0.73395
1628.733	1649	2.2705	31.364754	34.5407	2.1594	27.5910	27.5819	93.19	0.01	0.72642
1627.749	1648	2.2724	31.365768	34.5404	2.1613	27.5906	27.5815	93.18	0.01	0.72676
1626.765	1647	2.2754	31.367662	34.5400	2.1644	27.5900	27.5809	93.19	0.01	0.73097
1625.782	1646	2.2777	31.368944	34.5396	2.1667	27.5896	27.5805	93.19	0.02	0.72855
1624.798	1645	2.2805	31.370590	34.5392	2.1695	27.5889	27.5799	93.19	0.02	0.71925
1623.814	1644	2.2830	31.372002	34.5388	2.1721	27.5884	27.5794	93.19	0.01	0.72099
1622.830	1643	2.2847	31.372967	34.5385	2.1739	27.5881	27.5790	93.19	0.02	0.72465
1621.846	1642	2.2872	31.374453	34.5382	2.1764	27.5876	27.5786	93.19	0.01	0.71936
1620.862	1641	2.2895	31.375797	34.5380	2.1788	27.5872	27.5782	93.19	0.02	0.71193
1619.878	1640	2.2934	31.378283	34.5374	2.1827	27.5864	27.5774	93.19	0.01	0.71320
1618.894	1639	2.2958	31.379526	34.5368	2.1851	27.5858	27.5768	93.18	0.01	0.71475
1617.910	1638	2.2973	31.380232	34.5366	2.1867	27.5855	27.5764	93.18	0.01	0.70778
1616.926	1637	2.2981	31.380360	34.5363	2.1876	27.5852	27.5762	93.18	0.02	0.70473
1615.943	1636	2.2985	31.380238	34.5363	2.1880	27.5852	27.5761	93.18	0.02	0.70888
1614.959	1635	2.2993	31.380369	34.5361	2.1890	27.5849	27.5759	93.17	0.01	0.70267
1613.975	1634	2.3013	31.381414	34.5358	2.1910	27.5845	27.5754	93.19	0.02	0.69715
1612.991	1633	2.3031	31.382616	34.5358	2.1929	27.5844	27.5753	93.19	0.01	0.69654
1612.007	1632	2.3047	31.383257	34.5355	2.1945	27.5839	27.5749	93.19	0.02	0.69177
1611.023	1631	2.3056	31.383528	34.5353	2.1955	27.5837	27.5747	93.19	0.02	0.68519
1610.039	1630	2.3068	31.383970	34.5351	2.1967	27.5835	27.5744	93.18	0.01	0.68527
1609.055	1629	2.3073	31.384018	34.5351	2.1974	27.5834	27.5744	93.19	0.01	0.68975
1608.071	1628	2.3082	31.384253	34.5349	2.1983	27.5832	27.5742	93.19	0.01	0.68847
1607.087	1627	2.3088	31.384241	34.5348	2.1989	27.5831	27.5740	93.18	0.02	0.68045
1606.103	1626	2.3094	31.384340	34.5347	2.1997	27.5830	27.5739	93.19	0.01	0.67916
1605.119	1625	2.3102	31.384531	34.5346	2.2005	27.5828	27.5738	93.18	0.02	0.68447

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1604.135	1624	2.3110	31.384684	34.5345	2.2014	27.5826	27.5736	93.18	0.01	0.68514
1603.151	1623	2.3142	31.386759	34.5341	2.2046	27.5821	27.5731	93.18	0.02	0.68428
1602.167	1622	2.3166	31.388248	34.5339	2.2071	27.5817	27.5727	93.18	0.02	0.67686
1601.183	1621	2.3177	31.388727	34.5338	2.2082	27.5815	27.5725	93.19	0.02	0.67296
1600.199	1620	2.3190	31.389181	34.5335	2.2096	27.5811	27.5721	93.19	0.02	0.67629
1599.215	1619	2.3191	31.388929	34.5336	2.2098	27.5812	27.5722	93.19	0.01	0.67846
1598.231	1618	2.3195	31.388840	34.5335	2.2103	27.5811	27.5721	93.19	0.01	0.66747
1597.247	1617	2.3197	31.388567	34.5335	2.2105	27.5811	27.5721	93.19	0.02	0.66620
1596.263	1616	2.3212	31.389341	34.5334	2.2121	27.5808	27.5718	93.19	0.01	0.66791
1595.279	1615	2.3236	31.390810	34.5331	2.2145	27.5804	27.5715	93.19	0.02	0.66569
1594.295	1614	2.3249	31.391436	34.5329	2.2160	27.5802	27.5712	93.18	0.02	0.66110
1593.311	1613	2.3252	31.391171	34.5329	2.2162	27.5801	27.5711	93.18	0.01	0.66239
1592.327	1612	2.3252	31.390884	34.5329	2.2164	27.5801	27.5712	93.19	0.01	0.66459
1591.343	1611	2.3254	31.390451	34.5328	2.2166	27.5800	27.5711	93.19	0.02	0.66657
1590.359	1610	2.3255	31.390150	34.5327	2.2169	27.5799	27.5710	93.19	0.01	0.66534
1589.375	1609	2.3264	31.390360	34.5326	2.2178	27.5798	27.5708	93.19	0.02	0.65541
1588.391	1608	2.3278	31.390965	34.5324	2.2192	27.5794	27.5705	93.19	0.02	0.65200
1587.407	1607	2.3290	31.391680	34.5325	2.2205	27.5794	27.5705	93.18	0.02	0.65631
1586.423	1606	2.3306	31.392345	34.5321	2.2221	27.5790	27.5701	93.20	0.02	0.65983
1585.439	1605	2.3310	31.392187	34.5320	2.2226	27.5789	27.5699	93.18	0.02	0.65975
1584.454	1604	2.3313	31.392199	34.5322	2.2230	27.5790	27.5701	93.18	0.01	0.65965
1583.470	1603	2.3315	31.391825	34.5320	2.2233	27.5788	27.5699	93.18	0.01	0.65920
1582.486	1602	2.3314	31.391376	34.5320	2.2233	27.5788	27.5699	93.19	0.01	0.65307
1581.502	1601	2.3320	31.391378	34.5319	2.2240	27.5787	27.5698	93.18	0.01	0.64792
1580.518	1600	2.3333	31.392164	34.5320	2.2253	27.5786	27.5697	93.18	0.02	0.64835
1579.534	1599	2.3343	31.392416	34.5317	2.2264	27.5783	27.5694	93.18	0.02	0.65016
1578.550	1598	2.3351	31.392721	34.5318	2.2273	27.5783	27.5694	93.19	0.01	0.65282
1577.566	1597	2.3359	31.392914	34.5316	2.2282	27.5781	27.5692	93.18	0.02	0.65230
1576.582	1596	2.3365	31.393032	34.5317	2.2288	27.5781	27.5692	93.18	0.01	0.65222
1575.598	1595	2.3369	31.392965	34.5317	2.2293	27.5781	27.5692	93.18	0.01	0.64791
1574.614	1594	2.3385	31.393763	34.5314	2.2309	27.5778	27.5689	93.18	0.01	0.64354
1573.629	1593	2.3402	31.394543	34.5310	2.2327	27.5773	27.5684	93.18	0.01	0.64825
1572.645	1592	2.3406	31.394489	34.5311	2.2332	27.5773	27.5684	93.18	0.01	0.64917
1571.661	1591	2.3433	31.396059	34.5306	2.2360	27.5767	27.5678	93.18	0.01	0.64819
1570.677	1590	2.3460	31.397997	34.5306	2.2387	27.5764	27.5676	93.19	0.01	0.64396
1569.693	1589	2.3486	31.399511	34.5302	2.2413	27.5759	27.5671	93.19	0.02	0.64330
1568.709	1588	2.3501	31.400293	34.5301	2.2429	27.5757	27.5668	93.19	0.02	0.64319
1567.724	1587	2.3506	31.400200	34.5300	2.2435	27.5755	27.5667	93.18	0.01	0.64411
1566.740	1586	2.3512	31.400360	34.5300	2.2441	27.5755	27.5667	93.18	0.02	0.64518
1565.756	1585	2.3517	31.400265	34.5299	2.2447	27.5754	27.5666	93.18	0.01	0.64159
1564.772	1584	2.3519	31.400097	34.5299	2.2450	27.5754	27.5666	93.18	0.02	0.63597
1563.788	1583	2.3525	31.400204	34.5300	2.2456	27.5754	27.5666	93.19	0.02	0.63153
1562.804	1582	2.3542	31.401093	34.5297	2.2474	27.5750	27.5662	93.18	0.02	0.63455
1561.820	1581	2.3566	31.402321	34.5292	2.2498	27.5744	27.5656	93.18	0.02	0.63768

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1560.835	1580	2.3575	31.402678	34.5292	2.2508	27.5743	27.5655	93.19	0.02	0.63762
1559.851	1579	2.3586	31.403152	34.5291	2.2520	27.5741	27.5653	93.19	0.02	0.63257
1558.867	1578	2.3635	31.406422	34.5284	2.2569	27.5732	27.5644	93.18	0.01	0.62598
1557.883	1577	2.3700	31.411095	34.5276	2.2635	27.5720	27.5632	93.19	0.01	0.62624
1556.899	1576	2.3721	31.412130	34.5273	2.2655	27.5716	27.5627	93.18	0.02	0.62925
1555.914	1575	2.3735	31.412720	34.5269	2.2671	27.5712	27.5623	93.18	0.01	0.63130
1554.930	1574	2.3742	31.412655	34.5267	2.2678	27.5709	27.5621	93.18	0.01	0.63116
1553.946	1573	2.3745	31.412582	34.5267	2.2682	27.5709	27.5621	93.19	0.01	0.62867
1552.962	1572	2.3757	31.412918	34.5264	2.2694	27.5705	27.5617	93.19	0.01	0.62198
1551.978	1571	2.3771	31.413530	34.5261	2.2709	27.5702	27.5614	93.19	0.02	0.61746
1550.993	1570	2.3792	31.414604	34.5257	2.2731	27.5697	27.5608	93.19	0.01	0.62004
1550.009	1569	2.3805	31.415298	34.5256	2.2745	27.5695	27.5607	93.19	0.02	0.61751
1549.025	1568	2.3811	31.415232	34.5254	2.2751	27.5693	27.5605	93.19	0.01	0.61045
1548.041	1567	2.3811	31.414862	34.5255	2.2752	27.5694	27.5606	93.19	0.02	0.61149
1547.056	1566	2.3814	31.414581	34.5254	2.2755	27.5692	27.5605	93.19	0.02	0.60891
1546.072	1565	2.3815	31.414295	34.5254	2.2758	27.5692	27.5604	93.19	0.02	0.60390
1545.088	1564	2.3822	31.414356	34.5252	2.2765	27.5690	27.5603	93.19	0.01	0.60339
1544.104	1563	2.3839	31.415138	34.5248	2.2783	27.5686	27.5598	93.20	0.01	0.59741
1543.119	1562	2.3896	31.419426	34.5246	2.2839	27.5679	27.5592	93.19	0.01	0.59970
1542.135	1561	2.3957	31.424160	34.5244	2.2901	27.5672	27.5584	93.19	0.01	0.59627
1541.151	1560	2.3982	31.425646	34.5240	2.2927	27.5667	27.5580	93.19	0.02	0.59134
1540.167	1559	2.3992	31.426104	34.5240	2.2937	27.5667	27.5579	93.18	0.01	0.59329
1539.182	1558	2.4000	31.426126	34.5237	2.2946	27.5664	27.5576	93.19	0.01	0.59711
1538.198	1557	2.4013	31.426649	34.5235	2.2959	27.5660	27.5573	93.18	0.01	0.59571
1537.214	1556	2.4048	31.428658	34.5227	2.2995	27.5651	27.5563	93.19	0.02	0.59042
1536.229	1555	2.4083	31.430899	34.5222	2.3031	27.5644	27.5556	93.20	0.01	0.59321
1535.245	1554	2.4107	31.432552	34.5222	2.3055	27.5642	27.5554	93.19	0.01	0.59147
1534.261	1553	2.4114	31.432577	34.5220	2.3062	27.5640	27.5552	93.19	0.01	0.58719
1533.276	1552	2.4116	31.432428	34.5220	2.3066	27.5640	27.5552	93.19	0.01	0.58284
1532.292	1551	2.4124	31.432556	34.5219	2.3074	27.5638	27.5551	93.19	0.01	0.57835
1531.308	1550	2.4124	31.432074	34.5218	2.3075	27.5638	27.5550	93.19	0.01	0.58011
1530.323	1549	2.4138	31.433025	34.5220	2.3089	27.5638	27.5550	93.20	0.02	0.57244
1529.339	1548	2.4155	31.434034	34.5219	2.3107	27.5635	27.5548	93.19	0.01	0.57155
1528.355	1547	2.4159	31.433815	34.5218	2.3112	27.5634	27.5547	93.19	0.01	0.57412
1527.370	1546	2.4162	31.433819	34.5219	2.3116	27.5635	27.5548	93.18	0.02	0.57373
1526.386	1545	2.4166	31.433676	34.5218	2.3121	27.5634	27.5546	93.18	0.01	0.56904
1525.402	1544	2.4168	31.433409	34.5218	2.3123	27.5633	27.5546	93.18	0.01	0.56648
1524.417	1543	2.4175	31.433517	34.5217	2.3131	27.5632	27.5545	93.20	0.01	0.56824
1523.433	1542	2.4197	31.434694	34.5213	2.3154	27.5627	27.5539	93.19	0.01	0.57191
1522.449	1541	2.4201	31.434576	34.5213	2.3158	27.5626	27.5539	93.19	0.01	0.57198
1521.464	1540	2.4195	31.433727	34.5214	2.3153	27.5628	27.5541	93.19	0.01	0.56750
1520.480	1539	2.4226	31.435488	34.5207	2.3184	27.5619	27.5532	93.19	0.01	0.56482
1519.495	1538	2.4243	31.436617	34.5207	2.3202	27.5618	27.5531	93.19	0.01	0.56086
1518.511	1537	2.4278	31.438972	34.5204	2.3237	27.5613	27.5526	93.19	0.01	0.56264

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1517.527	1536	2.4287	31.439167	34.5202	2.3247	27.5610	27.5523	93.19	0.02	0.56477
1516.542	1535	2.4292	31.439171	34.5202	2.3253	27.5610	27.5523	93.19	0.02	0.56243
1515.558	1534	2.4309	31.440266	34.5202	2.3271	27.5608	27.5521	93.19	0.01	0.55913
1514.574	1533	2.4339	31.442133	34.5198	2.3301	27.5602	27.5516	93.20	0.01	0.55696
1513.589	1532	2.4353	31.442705	34.5196	2.3315	27.5600	27.5513	93.19	0.02	0.55397
1512.605	1531	2.4359	31.442766	34.5195	2.3322	27.5598	27.5511	93.19	0.01	0.55569
1511.620	1530	2.4377	31.443731	34.5193	2.3341	27.5595	27.5508	93.20	0.01	0.55861
1510.636	1529	2.4388	31.444126	34.5190	2.3353	27.5592	27.5505	93.20	0.01	0.55881
1509.651	1528	2.4389	31.443769	34.5190	2.3354	27.5592	27.5505	93.20	0.01	0.55023
1508.667	1527	2.4392	31.443695	34.5191	2.3358	27.5592	27.5505	93.20	0.02	0.54493
1507.683	1526	2.4392	31.443266	34.5191	2.3359	27.5592	27.5505	93.20	0.01	0.55035
1506.698	1525	2.4401	31.443550	34.5190	2.3369	27.5590	27.5504	93.19	0.01	0.55275
1505.714	1524	2.4431	31.445532	34.5187	2.3399	27.5586	27.5499	93.19	0.01	0.55043
1504.729	1523	2.4444	31.446095	34.5185	2.3413	27.5583	27.5497	93.19	0.01	0.54594
1503.745	1522	2.4458	31.446827	34.5184	2.3428	27.5581	27.5495	93.19	0.01	0.54037
1502.760	1521	2.4472	31.447384	34.5181	2.3442	27.5577	27.5491	93.18	0.02	0.54016
1501.776	1520	2.4483	31.447851	34.5181	2.3453	27.5576	27.5490	93.19	0.01	0.54271
1500.792	1519	2.4494	31.448208	34.5178	2.3465	27.5573	27.5487	93.20	0.01	0.54588
1499.807	1518	2.4493	31.447794	34.5179	2.3465	27.5574	27.5488	93.20	0.01	0.54202
1498.823	1517	2.4493	31.447275	34.5178	2.3466	27.5573	27.5486	93.20	0.01	0.54059
1497.838	1516	2.4496	31.447250	34.5180	2.3470	27.5574	27.5488	93.20	0.02	0.54366
1496.854	1515	2.4511	31.447786	34.5175	2.3485	27.5569	27.5483	93.19	0.01	0.53907
1495.869	1514	2.4527	31.448553	34.5172	2.3502	27.5565	27.5479	93.19	0.01	0.53497
1494.885	1513	2.4538	31.449013	34.5172	2.3513	27.5564	27.5478	93.19	0.01	0.53608
1493.900	1512	2.4548	31.449339	34.5170	2.3524	27.5562	27.5476	93.19	0.02	0.53833
1492.916	1511	2.4567	31.450346	34.5167	2.3544	27.5558	27.5472	93.19	0.01	0.53785
1491.931	1510	2.4583	31.451221	34.5166	2.3560	27.5555	27.5470	93.20	0.01	0.53307
1490.947	1509	2.4590	31.451359	34.5165	2.3568	27.5554	27.5468	93.19	0.02	0.52710
1489.962	1508	2.4591	31.450697	34.5161	2.3570	27.5551	27.5465	93.20	0.02	0.52719
1488.978	1507	2.4591	31.450172	34.5160	2.3570	27.5550	27.5464	93.19	0.01	0.53101
1487.993	1506	2.4600	31.450314	34.5157	2.3581	27.5546	27.5461	93.20	0.01	0.53280
1487.009	1505	2.4620	31.451380	34.5153	2.3601	27.5542	27.5456	93.19	0.01	0.53262
1486.024	1504	2.4664	31.454523	34.5151	2.3645	27.5536	27.5450	93.20	0.02	0.52760
1485.039	1503	2.4708	31.457430	34.5144	2.3689	27.5527	27.5442	93.21	0.02	0.51956
1484.055	1502	2.4728	31.458668	34.5143	2.3710	27.5524	27.5439	93.20	0.02	0.51878
1483.070	1501	2.4744	31.459333	34.5139	2.3727	27.5520	27.5434	93.20	0.02	0.52347
1482.086	1500	2.4765	31.460390	34.5135	2.3748	27.5515	27.5429	93.19	0.01	0.52356
1481.101	1499	2.4787	31.461523	34.5131	2.3771	27.5510	27.5424	93.20	0.01	0.51405
1480.117	1498	2.4791	31.461411	34.5130	2.3776	27.5509	27.5423	93.21	0.01	0.51407
1479.132	1497	2.4816	31.462847	34.5126	2.3801	27.5503	27.5417	93.20	0.02	0.51260
1478.148	1496	2.4830	31.463409	34.5123	2.3816	27.5500	27.5414	93.22	0.01	0.50531
1477.163	1495	2.4847	31.464304	34.5121	2.3833	27.5497	27.5411	93.22	0.01	0.50761
1476.178	1494	2.4866	31.465454	34.5119	2.3853	27.5494	27.5408	93.20	0.01	0.50158
1475.194	1493	2.4884	31.466410	34.5117	2.3872	27.5490	27.5405	93.21	0.01	0.49881

depth	pressure	temperature	conductivity	salinity	potential temperature	density	density	transmissometer	backscatterance	oxygen
salt water		primary IPTS-68	primary	PSS-78	primary IPTS-68	sigma-q	sigma-t			
[m]	[db]	[deg C]	[mS/cm]	[PSU]	[deg C]	[kg/m^3]	[kg/m^3]			[ml/l]
1474.209	1492	2.4893	31.466686	34.5116	2.3881	27.5489	27.5403	93.19	0.02	0.50032
1473.225	1491	2.4904	31.466982	34.5113	2.3893	27.5485	27.5400	93.19	0.01	0.50164
1472.240	1490	2.4916	31.467665	34.5113	2.3906	27.5485	27.5399	93.20	0.01	0.49418
1471.255	1489	2.4923	31.467766	34.5112	2.3913	27.5483	27.5398	93.19	0.01	0.49464
1470.271	1488	2.4932	31.468149	34.5113	2.3923	27.5482	27.5397	93.20	0.02	0.49468
1469.286	1487	2.4942	31.468548	34.5113	2.3933	27.5481	27.5396	93.19	0.01	0.48748
1468.302	1486	2.4956	31.469202	34.5111	2.3948	27.5479	27.5394	93.19	0.01	0.48703
1467.317	1485	2.4966	31.469561	34.5109	2.3959	27.5477	27.5392	93.20	0.01	0.48595
1466.332	1484	2.4977	31.469965	34.5107	2.3971	27.5474	27.5389	93.19	0.01	0.48568
1465.348	1483	2.5001	31.471329	34.5104	2.3995	27.5469	27.5384	93.19	0.01	0.48874
1464.363	1482	2.5024	31.472706	34.5101	2.4019	27.5465	27.5380	93.19	0.02	0.48831
1463.379	1481	2.5031	31.472803	34.5100	2.4027	27.5463	27.5378	93.19	0.01	0.48308
1462.394	1480	2.5033	31.472502	34.5099	2.4029	27.5463	27.5378	93.19	0.01	0.47872
1461.409	1479	2.5047	31.473303	34.5099	2.4044	27.5461	27.5376	93.20	0.01	0.47613
1460.425	1478	2.5058	31.473804	34.5099	2.4055	27.5460	27.5376	93.21	0.01	0.47871
1459.440	1477	2.5083	31.475384	34.5096	2.4082	27.5456	27.5371	93.19	0.01	0.48152

1 Appendix A: Data Formats

1.1 Serial Data Formats

Standard DSG data strings are logged as ASCII text strings that are terminated with “\n” (0D0A hex). The record has the following general format:

<STRING TYPE> <DATE/TIME RECORD> <DATA SOURCE> <DATA FIELDS> <\n>

where the individual fields are as follows:

- <STRING TYPE>

The first field of every standard DSG data string is the string-type field, a 3-letter code indicating the type of the data string. The types presently in use include:

- ◆ PAS: Platform Attitude Status - containing vehicle heading, roll, pitch, depth, and altitude data.
- ◆ PNS: Platform Navigation Status - containing vehicle position data.
- ◆ PGE: Platform Gyro Event - containing gyro events such as pilot initiated resets of gyro to current magnetic heading, and gyro power-on events.
- ◆ JTS: Jason Thruster Status containing current Jason thruster command values.
- ◆ JSS: Jason Switch Status - containing current values of various Jason on-board switches such as lights and other power controls.
- ◆ VID: A Video record, containing events pertaining to videotape start, stop, and pause times. These records were an experiment during the Derbyshire survey period, and are no longer used in the Deep Submergence Group

- <DATE/TIME RECORD>

The second field of every standard DSG data string is a date/time field that documents the Greenwich time at which the data was logged. It is in the format YY/MM/DD HH: MM: SS.SS.

- ◆ YY: Year, with no century indication
- ◆ MM: Month
- ◆ DD: Day of month, with leading zero as appropriate
- ◆ HH: Hour, on a 24 hour clock, leading zero as appropriate
- ◆ MM: Minutes past the hour, leading zero as appropriate
- ◆ SS Seconds, in decimal notation to 0.01 second resolution, leading zero as appropriate

- <DATA SOURCE>

The third field of every standard DSG data string is the data source field - indicating that the data is either from or about a particular vehicle or sensor.

- JAS Data was generated by Jason or Argo. Note that ARGO and JASON generate identical log strings. Both are referred to as "JAS" in the raw log files.
- MED Data was generated for Medea
- IMA Imagenix scanning sonar
- SHP The surface ship position
- REF The surface ship reference position
- GPS The surface ship's position according to GPS
- WRN The surface ship's position according to the WRN Military GPS receiver
- LBL The LBL navigation system
- <DATA FIELDS>

The remaining fields of every standard DSL data string contain numerical data delimited by white space.

- <\cr>

The last character of every standard DSL data string is the ASCII string termination character “\n” (0D0A hex).

1.1.1 Specific Data Record Formats

1.1.1.1 PNS Records

PNS records are comprised of at least 9 fields:

1. "PNS"
2. Date string: YY/MM/DD
3. time string: HH:MM:SS.SS
4. source
5. coordinate frame
6. vehicle
7. X position

8. Y position
9. Z position
10. Quality Indicator (in some records)
11. Transponder Pair Indicator (in some records)

The Source field identifies the origin of the record. It can take on many forms, including WRN, which indicates a GPS receiver of some type, GPS, which also indicates a satellite receiver and LBL, which indicates an acoustic navigation fix. Navigation records use one of three coordinate frames in the fifth field: GLL, NEN, or UTM. GLL is the Geodetic Latitude and Longitude indicator. Latitude or Longitude is represented as decimal degrees, Positive North and East. NEN stands for Net East-North, a local navigation frame used in Long BaseLine (LBL) navigation. However, during the Derbyshire survey, UTM coordinates were logged in NEN records. UTM stands for Universal Transverse Mercator, a worldwide (except for very high latitudes) projection system that the DSG uses for almost all processing and mapping. The Derbyshire survey was carried out almost entirely in UTM Zone 53. Units are in meters. (A description of UTM, which includes equations for the Latitude-Longitude<->UTM transformation, is found in (Evenden, 1990).

The vehicle field identifies what is being navigated. Possible identifiers include

- SHP: The surface vessel
- JAS: The Jason vehicle
- ARG: The Argo vehicle
- MED: The Medea vehicle
- FSH: generally, the DSL-120 sonar
- EMG: The emergency transponder bottle
- RLY: A relay transponder

The last two identifiers can be used to navigate virtually any of the DSG vehicles, and have to be considered in context, knowing which vehicle was in the water at what time. The navigator on watch shifts frequencies as necessary to safely navigate the vehicle in real time.

The Z field of the navigation coordinates represents either the depth of the ship transducer (in a SHP LBL record) or the calculated acoustic depth of the vehicle being navigated.

Sample PNS Strings:

```
PNS 97/04/01 23:59:55.54 WRN GLL SHP 25.862668 133.532262 0.00 1.2 00
PNS 97/04/01 23:59:55.54 GPS UTM SHP 352931.77 2861297.19 0.00 1.2 06
PNS 97/04/01 23:59:52.00 LBL NEN SHP 352963.41 2861276.11 5.80 0.0 00
PNS 97/04/01 23:59:57.58 WRN GLL SHP 25.862663 133.532267 0.00 1.2 00
PNS 97/04/01 23:59:57.58 GPS UTM SHP 352932.26 2861296.63 0.00 1.2 06
```

1.1.1.2 PAS records

There are two kinds of PAS records in the data set. The first is a vehicle-based record, which is comprised of 15 fields:

1. "PAS"
2. Date string: YY/MM/DD
3. Time String: HH:MM:SS.SS
4. "JAS"
5. heading, Humphries mechanical gyro, degrees, true (corrected for local variation)
6. heading, KVH magnetic compass, degrees, true (corrected for local variation)
7. pitch, inclinometer, degrees
8. roll, inclinometer, degrees
9. altitude, Datasonics acoustic altimeter, meters above bottom
10. depth, Paroscientific pressure transducer, meters below surface
11. gyro correction for Humphries mechanical gyro, degrees
12. local magnetic variation, degrees
13. pitch, Watson, degrees
14. roll, Watson, degrees
15. 0.0
16. 0.0

The second type of PAS record is found in the raw navigation files, and is a ship's gyro record. It is comprised of ten fields:

1. "PAS"
2. Date string: YY/MM/DD
3. Time String: HH:MM:SS.SS
4. "SHP"
5. heading, ship's gyro
6. 0.0
7. 0.0
8. 0.0
9. 0.0
10. 0.0

The last five fields are always set to zero for consistency with the vehicle-originated PAS format and potential use in other DSG processing software.

All magnetic headings are logged in degrees of true heading. Magnetic heading is corrected to true heading by applying the local magnetic variation that is programmed into the Jason/Argo topside computer. The sign convention of magnetic variation is

Negative = west, positive = east.

Raw magnetic heading is converted to true heading with the formula:

True heading = raw heading + current magnetic variation;

Gyro heading is logged in degrees true. The gyro is corrected for earth-rate rotation based on the latitude programmed into the Jason/Argo topside computer. The gyro drifts, sometimes over 10 degrees per hour. The pilot periodically manually resets the gyro heading to the current true heading indicated by the magnetic compass.

Sample PAS Strings:

```
PAS 97/06/24 16:39:00.07 JAS 350.6 352.3 -1.9 5.2 4.2 845.028 -23.6 1.0 -3.9066 3.4323 0.0 0.0
PAS 97/06/24 16:39:00.83 JAS 350.6 352.0 -2.5 5.0 4.2 845.015 -23.6 1.0 -4.3954 3.2968 0.0 0.0
PAS 97/06/24 16:39:01.11 JAS 350.7 352.0 -2.8 5.1 4.2 845.015 -23.6 1.0 -4.6408 3.2236 0.0 0.0
PAS 97/06/24 16:39:01.42 JAS 350.8 351.5 -2.9 5.0 4.2 845.015 -23.6 1.0 -4.6591 3.1796 0.0 0.0
PAS 97/06/24 16:39:01.89 JAS 351.0 351.5 -3.2 4.9 4.2 845.035 -23.6 1.0 -4.5273 3.1796 0.0 0.0
```

1.1.1.3 JTS Records

JTS records are not used in routine processing, but are logged and maintained for use in thruster analysis. They are comprised of seventeen fields:

1. "JTS"
2. Date string: YY/MM/DD
3. Time string: HH:MM:SS.SS
4. "JAS"
5. Port Horizontal (PH) thruster command in Newtons
6. Starboard Horizontal (SH) thruster command in Newtons
7. Forward Lateral (FL) thruster command in Newtons
8. Aft Lateral (AL) thruster command in Newtons
9. Port Vertical (PV) thruster command in Newtons
10. Starboard Vertical (SV) thruster command in Newtons
11. Aft Vertical (AV) thruster command in Newtons
12. 7 bit bitfield indicating power status of each vehicle thruster as follows:

PH power on? (0 or 1)
 SH power on? (0 or 1)
 FL power on? (0 or 1)
 AL power on? (0 or 1)
 PV power on? (0 or 1)
 SV power on? (0 or 1)
 AV power on? (0 or 1)

13. U Thrust command. Total commanded thrust in forward direction, Newtons.
14. V Thrust command. Total commanded thrust in starboard direction, Newtons.
15. W Thrust command. Total commanded thrust in down direction, Newtons.
16. Heading Moment command. Total commanded moment in clockwise direction, Newton-meters.
17. Jason-Argo configuration:

0 = Jason deep configuration - 1HP Thrusters as forward verticals
 1 = Jason shallow configuration - 1HP Thrusters as laterals
 2 = Argo configuration - 1HP Thrusters as laterals

Sample JTS Strings:

```
JTS 98/04/20 10:00:01.58 JAS 24.6804 13.5970 5.5417 -2.7708 -14.3563 -14.3563 -7.1781
1111111 35.4901 2.7708 -35.8907 10.5846 0
JTS 98/04/20 10:00:02.58 JAS 34.9563 3.3211 15.8176 -7.9088 -14.3563 -14.3563 -7.1781
1111111 35.4901 7.9088 -35.8907 30.2116 0
JTS 98/04/20 10:00:03.59 JAS 29.0642 9.2131 9.9255 -4.9628 -14.3563 -14.3563 -7.1781
1111111 35.4901 4.9628 -35.8907 18.9578 0
```

1.1.1.4 JSS Records

JSS records are not processed during normal operations. They represent system status, and are comprised of ten fields:

1. "JSS"
2. Date string: YY/MM/DD
3. Time string: HH:MM:SS.SS
4. "JAS"
5. ten-bit bitfield indicating the power status of the following devices: (0=off, 1=on)
 - pan-tilt
 - gyro compass
 - magnetic compass
 - pressure depth sensor (Paroscientific)
 - acoustic altimeter
 - manipulator

- electronic still camera
 - Imagenex sonar
 - sidescan sonar
6. four-bit bitfield indicating the power status of the following devices: (0=off, 1=on)
- light circuit 1
 - light circuit 2
 - light circuit 3
 - light circuit 4
7. four-bit bitfield indicating the power status of the following devices: (0=off, 1=on)
- video circuit 1
 - video circuit 2
 - video circuit 3
 - video circuit 4
8. two-bit bitfield indicating the power status of the following devices: (0=off, 1=on)
- science bus 1
 - science bus 2
9. A two-integer field indicating the state of the two subsea video switches. Two of the video channels from subsea to topside are selectable via two subsea video switches to any of four possible subsea cameras. The two digits of this field indicate the switch state of these two video switches.
10. Integer frame count for the 35mm film camera.

Sample JSS Strings:

```
JSS 98/04/22 08:06:35.68 JAS 0101101100 0000 1111 00 31 0
JSS 98/04/22 08:06:45.68 JAS 1101101100 0000 1111 11 31 0
JSS 98/04/22 08:06:55.69 JAS 1101101100 0010 1111 11 31 0
JSS 98/04/22 08:07:05.71 JAS 1101101100 0010 1111 11 31 0
```

1.1.1.5 SRE Records

SRE records come from the Imagenex profiling sonar system. SRE records are comprised of at least 5 fields:

1. "SRE"

2. Date string: YY/MM/DD
3. time string: HH:MM:SS.SS
4. "IMA"
5. the actual data field, in the form: Cxxxxx,yyyyy where xxxxx is the range to the first detected echo in centimeters, and yyyy is the angle of the head from its zero position.

Sample SRE Strings:

SRE 00/04/29 23:59:59.28 IMA C2152,0008
SRE 00/04/29 23:59:59.38 IMA C2141,0017
SRE 00/04/29 23:59:59.48 IMA C2131,0026
SRE 00/04/29 23:59:59.59 IMA C2141,0035
SRE 00/04/29 23:59:59.69 IMA C2278,0044

Appendix B: Data Listing

List of Data on CD-ROMS Supplied by Jason Ops

Directory	Data Type	Information Included in Files	Processing
att	attitude	PAS, date, time, JAS, heading (gyro), heading (mag), pitch, roll, altitude, depth, gyro correction, local magnetic variation	*.raw – no processing *.1 – data records cleaned & velocity filter applied
evt	event log	EVT, date, time, DLG, X-coor (UTM), Y-coor (UTM), Navigation quality (if entered by data logger), depth (from Jason), altitude (from Jason), Gyro (from Jason), Data Logger entries (prefixes for Frame grabs, location, and flow types as well as comments)	no processing
framegrabs	JPEG	video grab jpeg files	no processing
ima	Imagenix	SRE, date, time, IMA, distance and heading to first detected echo	no processing
nav	Jason navigation	PNS, date, time, source, coordinate frame, JAS, X position, Y position, Z position	*.raw – no processing *.1 – data records cleaned & velocity filter applied *.2 – checked for gaps & median filter applied
vev	video support	EVT, date, time, VID, depth, altitude, gyro, original file location and name	no processing

Notes:

- (1) CD-ROM 1 contains the above directories for Jason Lowerings 282 and 283 (7/23/00-7/28/00)
- (2) CD-ROM 2 contains the above directories for Jason Lowerings 285 (7/29/00-7/30/00)
- (3) Data is organized by date: there is one file for each day for each data type.

Science CD

Directory	Filename	Information Included in Files	Processing
Ctd	Readme.ctd	List of Temperature probe data for TN114 cruise (JDF00) from Sea Bird model sbe39	none – temp = 1/raw + ambient
	sn122.asc	temperature data from probe on sample basket (put in flow by manipulator)	
	sn123.asc	temperature data from probe on lower Jasom frame (5.5 in. above bottom of frame)	
	sn124.asc	temperature data from probe on upper Jason frame (41.5 in. above bottom of frame)	
	J284_pt.xls	combined Excel file with plots	
	temp.log	raw data from high temp Jasom probe (put in flow by manipulator)	
Matlab	*.m	Matlab functions for processing sonar data	
	*.bem, *.cof	beamforming coefficient files	
	@sm2000	Matlab functions for reading raw sonar data	
	Tim	Matlab functions for navigation data	
Sm2000	README.sm2000	file list of SM2000 settings for user modes	
	sm2000.in1		
	sm2000.in2		
	sm2000.in3		
	sm2000.in4	for Diffuse2	
	sm2000.in5	for Passive1	
	sm2000.in6	for Plume2	
	sm2000.in7	for Image1	
(other files)	sm2000.in8	for Coherent1, Diffuse3	
	Target.(doc,txt)	list of navigation target locations and significance	
	Transponders.(doc,txt)	transponder locations and frequencies	

List of Data on CD-ROM Supplied by R/V Thompson

Directory	File or Directory	Information Included in Files	Processing
Adcp	pingdata.* Utility	Acoustic doppler current profiler raw data files Directory containing software for processing of ADCP data	
Ctd	various files	Seabird CTD data	*.cnv files contain processed data in ascii format
Das	*das*	Shipboard navigation and IMET data	
Seasoft	*.exe	Seabird processing software (self-extracting)	

Appendix C



Fisheries
and Oceans

Pêches
et Océans

PO Box 970, 950 Coast Guard Drive
Ucluelet, BC V0R 3A0

July 10, 2000

Dr. Peter A Rona
Institute of Marine and Coastal Sciences
Rutgers University
New Brunswick, NJ 08901-8521

Dear Dr. Rona:

Subject: Thomas G Thompson Research Cruise, July 21 – August 1, 2000

By way of this letter, I am writing to confirm the position of Fisheries and Oceans Canada on the addition of moderate sampling in the Main Endeavour Field during the above mentioned cruise as described in the attached document.

It is our understanding that the proposed sampling will not result in additional damage to the habitat beyond the removal of the chimney samples as described. As a result, the proposed research activities are still consistent with the spirit of the recommendations under development for MPA designation of the area and as such, Fisheries and Oceans Canada has no objections to the level of sampling outlined in the attached document. Further, we have received confirmation that both the Canadian Department of Foreign Affairs and International Trade and the US Department of State have no objections.

Please feel free to contact Kevin Conley by phone (250.726.4621) or email (ConleyK@pac.dfo-mpo.gc.ca) should you have any further questions.

Sincerely yours

for Doug Andrie
Coordinator, Integrated Coastal Zone Management

Att. Summary of proposed research activities by Antoine Page.

Cc. Daniel Schwartz, Marine Operations, University of Washington
Wayne House, Department of Foreign Affairs and International Trade
Dr. S Kim Juniper, Université du Québec à Montréal

Canada

Dear Kevin,

Antoine Page, my graduate student at the University of Quebec at Montreal, would like to collect 5-10 small (1-2kg) pieces of hydrothermal chimney from the Main Endeavour field during Peter Rona's cruise aboard the Thomas G Thompson July 21 – August 1, 2000. The samples would be collected by the JASON ROV and would be used for Antoine's MSc project on microbial biodiversity on sulphide chimneys.

Peter had asked for a note from your group acknowledging this addition to the cruise plan since the vessel clearance has already gone through, stating that the proposed sampling was within the limitations foreseen for normal scientific activity within the Main Endeavour Field portion of the MPA. Peter thought it best that the letter be sent to him since he originated the request for vessel clearance and he was approving the addition of sampling to the cruise plan. A copy could also go to Daniel Schwartz, the Thompson port captain at the University of Washington, School of Oceanography.

I will be onboard the NOAA Ronald H Brown at this email address, Kim_Juniper%Brown@ccmail.rdc.noaa.gov, until July 17. Please keep me informed of progress during this time. Antoine Page is scheduled to fly to Seattle on July 18.

...kim

Kim Juniper
Professor, University of Quebec at Montreal